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PERHITUNGAN PLAT LANTAI 1 - ATAP

No. Plat	t (mm)	l_x (m)	l_y (m)	l_y/l_x	C_x (tabel)	C_y (tabel)	f'_c (MPa)	f_y (MPa)	DL (kg/m ²)	LL (kg/m ²)	q_u (kg/m ²)	d_x (mm)	d_y (mm)	M_{ux} (kgm)	M_{uy} (kgm)	M_{nx} (Nmm)	M_{ny} (Nmm)
Lantai 1																	
1	120	3.25	4.25	1.307692	67.4	51	29	240	483	400	1220	95	85	868.5333	1123.849	10856666	14048109
2	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	400	1220	95	85	681.6826	738.283	8521033	9228538
3	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	400	1220	95	85	681.6826	738.283	8521033	9228538
4	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
5	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
6	120	2.85	3.25	1.140351	57.57	50.43	29	240	483	250	980	95	85	458.2601	522.0135	5728251	6525169
7	120	2.5	4.25	1.7	82	50	29	240	483	400	1220	95	85	625.25	1101.813	7815625	13772656
8	120	2.5	3.5	1.4	71	51	29	240	483	400	1220	95	85	541.375	762.195	6767188	9527438
9	120	2.5	3.5	1.4	71	51	29	240	483	400	1220	95	85	541.375	762.195	6767188	9527438
10	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
11	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
12	120	2.5	2.85	1.14	57.57	50.43	29	240	483	250	980	95	85	352.6163	401.4253	4407703	5017817
13	120	4	4.25	1.0625	52.38	49.25	29	240	483	400	1220	95	85	1022.458	1085.285	12780720	13566066
14	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
15	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
16	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
17	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
18	120	2.85	4	1.403509	71.18	51	29	240	483	250	980	95	85	566.5964	799.68	7082454	9996000
19	120	4	4.25	1.0625	52.38	49.25	29	240	483	400	1220	95	85	1022.458	1085.285	12780720	13566066
20	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
21	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
22	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
23	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
24	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	995.52	8816933	12444000
25	120	4	4.25	1.0625	52.38	49.25	29	240	483	400	1220	95	85	1022.458	1085.285	12780720	13566066
26	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
27	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
28	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
29	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
30	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	995.52	8816933	12444000
31	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
32	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
33	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
34	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
35	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
36	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	995.52	8816933	12444000
37	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
38	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
39	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
40	120	3.5	4.25	1.214286	61.86	51	29	240	483	250	980	95	85	742.6293	902.7638	9282866	11284547
41	120	3.5	3.5	1	48	48	29	240	483	250	980	95	85	576.24	576.24	7203000	7203000
42	120	3.5	3.5	1	48	48	29	240	483	250	980	95	85	576.24	576.24	7203000	7203000
43	120	3.5	3.5	1	48	48	29	240	483	250	980	95	85	576.24	576.24	7203000	7203000
44	120	3.5	3.5	1	48	48	29	240	483	250	980	95	85	576.24	576.24	7203000	7203000

Lantai 2															
45	120	3.25	4.25	1.307692	67.4	51	29	240	483	250	980	95	85	697.6743	11284547
46	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	7413088
47	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	7413088
48	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	7413088
49	120	2.85	3.25	1.140351	57.57	50.43	29	240	483	250	980	95	85	458.2601	6525169
50	120	2.5	4.25	1.7	82	50	29	240	483	250	980	95	85	502.25	11063281
51	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	7653188
52	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	7653188
53	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	7653188
54	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	7653188
55	120	2.5	2.85	1.14	57.57	50.43	29	240	483	250	980	95	85	352.6163	5017817
56	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	10897332
57	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
58	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
59	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
60	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
61	120	2.85	4	1.403509	71.18	51	29	240	483	250	980	95	85	566.5964	9996000
62	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	10897332
63	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
64	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
65	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
66	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	12304920
67	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	12444000
68	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	10897332
69	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
70	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
71	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
72	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
73	120	2.85	4	1.403509	71.18	51	29	240	483	250	980	95	85	566.5964	9996000
74	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	10897332
75	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
76	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
77	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
78	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
79	120	2.85	4	1.403509	71.18	51	29	240	483	250	980	95	85	566.5964	9996000
80	120	4	4.25	1.0625	52.38	49.25	29	240	483	400	1220	95	85	1022.458	13566066
81	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	12304920
82	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	12304920
83	120	3.5	4.25	1.214286	61.86	51	29	240	483	400	1220	95	85	924.4977	14048109
84	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	8967000
85	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	8967000
86	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	8967000
87	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	8967000
88	120	3.25	4.25	1.307692	67.4	51	29	240	483	250	980	95	85	697.6743	11284547

Lantai 3																	
89	120	3.25	4.25	1.307692	67.4	51	29	240	483	250	980	95	85	697.6743	902.7638	8720928	11284547
90	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
91	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
92	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
93	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
94	120	2.85	3.25	1.140351	57.57	50.43	29	240	483	250	980	95	85	458.2601	522.0135	5728251	6525169
95	120	2.5	4.25	1.7	82	50	29	240	483	250	980	95	85	502.25	885.0625	6278125	11063281
96	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
97	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
98	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
99	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
100	120	2.5	2.85	1.14	57.57	50.43	29	240	483	250	980	95	85	352.6163	401.4253	4407703	5017817
101	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
102	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
103	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
104	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
105	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
106	120	2.85	4	1.403509	71.18	51	29	240	483	250	980	95	85	566.5964	799.68	7082454	9996000
107	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
108	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
109	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
110	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
111	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
112	120	2.85	4	1.403509	71.18	51	29	240	483	40	644	95	85	372.3348	525.504	4654184	6568800
113	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
114	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
115	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
116	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
117	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
118	120	2.85	4	1.403509	71.18	51	29	240	483	250	980	95	85	566.5964	799.68	7082454	9996000
119	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
120	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
121	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
122	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
123	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
124	120	2.85	4	1.403509	71.18	51	29	240	483	250	980	95	85	566.5964	799.68	7082454	9996000
125	120	4	4.25	1.0625	52.38	49.25	29	240	483	400	1220	95	85	1022.458	1085.285	12780720	13566066
126	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
127	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
128	120	3.5	4.25	1.214286	61.86	51	29	240	483	400	1220	95	85	924.4977	1123.849	11556221	14048109
129	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	717.36	8967000	8967000
130	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	717.36	8967000	8967000
131	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	717.36	8967000	8967000
132	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	717.36	8967000	8967000

Lantai 4															
133	120	3.25	4.25	1.307692	67.4	51	29	240	483	250	980	95	85	697.6743	11284547
134	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	7413088
135	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	6844764
136	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	7413088
137	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	7413088
138	120	2.85	3.25	1.140351	57.57	50.43	29	240	483	250	980	95	85	458.2601	6525169
139	120	2.5	4.25	1.7	82	50	29	240	483	250	980	95	85	502.25	11063281
140	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	7653188
141	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	7653188
142	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	7653188
143	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	7653188
144	120	2.5	2.85	1.14	57.57	50.43	29	240	483	250	980	95	85	352.6163	5017817
145	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	10897332
146	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
147	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
148	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
149	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
150	120	2.85	4	1.403509	71.18	51	29	240	483	250	980	95	85	566.5964	9996000
151	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	10897332
152	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
153	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
154	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
155	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	12304920
156	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	12444000
157	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	10897332
158	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
159	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
160	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
161	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	12304920
162	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	12444000
163	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	10897332
164	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
165	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
166	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	9884280
167	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	12304920
168	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	12444000
169	120	4	4.25	1.0625	52.38	49.25	29	240	483	500	1380	95	85	1156.55	15345223
170	120	3.5	4	1.142857	57.57	50.43	29	240	483	500	1380	95	85	973.2209	13918680
171	120	3.5	4	1.142857	57.57	50.43	29	240	483	500	1380	95	85	973.2209	13918680
172	120	3.5	4.25	1.214286	61.86	51	29	240	483	500	1380	95	85	1045.743	15890484
173	120	3.5	3.5	1	48	48	29	240	483	500	1380	95	85	811.44	10143000
174	120	3.5	3.5	1	48	48	29	240	483	500	1380	95	85	811.44	10143000
175	120	3.5	3.5	1	48	48	29	240	483	500	1380	95	85	811.44	10143000
176	120	3.5	3.5	1	48	48	29	240	483	500	1380	95	85	811.44	10143000

Lantai 5																	
177	120	3.25	4.25	1.307692	67.4	51	29	240	483	250	980	95	85	697.6743	902.7638	8720928	11284547
178	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
179	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
180	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
181	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
182	120	2.85	3.25	1.140351	57.57	50.43	29	240	483	250	980	95	85	458.2601	522.0135	5728251	6525169
183	120	2.5	4.25	1.7	82	50	29	240	483	250	980	95	85	502.25	885.0625	6278125	11063281
184	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
185	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
186	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
187	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
188	120	2.5	2.85	1.14	57.57	50.43	29	240	483	250	980	95	85	352.6163	401.4253	4407703	5017817
189	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
190	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
191	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
192	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
193	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
194	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	995.52	8816933	12444000
195	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
196	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
197	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
198	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
199	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
200	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	995.52	8816933	12444000
201	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
202	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
203	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
204	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
205	120	3.5	4	1.142857	57.57	50.43	29	240	483	500	1380	95	85	973.2209	1113.494	12165261	13918680
206	120	2.85	4	1.403509	71.18	51	29	240	483	500	1380	95	85	797.8602	1126.08	9973252	14076000
207	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
208	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
209	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
210	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
211	120	3.5	4	1.142857	57.57	50.43	29	240	483	500	1380	95	85	973.2209	1113.494	12165261	13918680
212	120	2.85	4	1.403509	71.18	51	29	240	483	500	1380	95	85	797.8602	1126.08	9973252	14076000
213	120	4	4.25	1.0625	52.38	49.25	29	240	483	500	1380	95	85	1156.55	1227.618	14456880	15345223
214	120	3.5	4	1.142857	57.57	50.43	29	240	483	500	1380	95	85	973.2209	1113.494	12165261	13918680
215	120	3.5	4	1.142857	57.57	50.43	29	240	483	500	1380	95	85	973.2209	1113.494	12165261	13918680
216	120	3.5	4.25	1.214286	61.86	51	29	240	483	500	1380	95	85	1045.743	1271.239	13071791	15890484
217	120	3.5	3.5	1	48	48	29	240	483	500	1380	95	85	811.44	811.44	10143000	10143000
218	120	3.5	3.5	1	48	48	29	240	483	500	1380	95	85	811.44	811.44	10143000	10143000
219	120	3.5	3.5	1	48	48	29	240	483	500	1380	95	85	811.44	811.44	10143000	10143000
220	120	3.5	3.5	1	48	48	29	240	483	500	1380	95	85	811.44	811.44	10143000	10143000

Lantai 6																	
221	120	3.25	4.25	1.307692	67.4	51	29	240	483	250	980	95	85	697.6743	902.7638	8720928	11284547
222	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
223	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
224	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
225	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
226	120	2.85	3.25	1.140351	57.57	50.43	29	240	483	250	980	95	85	458.2601	522.0135	5728251	6525169
227	120	2.5	4.25	1.7	82	50	29	240	483	250	980	95	85	502.25	885.0625	6278125	11063281
228	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
229	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
230	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
231	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
232	120	2.5	2.85	1.14	57.57	50.43	29	240	483	250	980	95	85	352.6163	401.4253	4407703	5017817
233	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
234	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
235	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
236	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
237	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
238	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	995.52	8816933	12444000
239	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
240	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
241	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
242	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
243	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
244	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	995.52	8816933	12444000
245	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
246	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
247	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
248	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
249	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
250	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	995.52	8816933	12444000
251	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
252	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
253	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
254	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
255	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
256	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	995.52	8816933	12444000
257	120	4	4.25	1.0625	52.38	49.25	29	240	483	400	1220	95	85	1022.458	1085.285	12780720	13566066
258	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
259	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
260	120	3.5	4.25	1.214286	61.86	51	29	240	483	400	1220	95	85	924.4977	1123.849	11556221	14048109
261	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	717.36	8967000	8967000
262	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	717.36	8967000	8967000
263	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	717.36	8967000	8967000
264	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	717.36	8967000	8967000

Lantai 7																	
265	120	3.25	4.25	1.307692	67.4	51	29	240	483	250	980	95	85	697.6743	902.7638	8720928	11284547
266	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
267	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
268	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
269	120	3.25	3.5	1.076923	52.9	49.4	29	240	483	250	980	95	85	547.5811	593.047	6844764	7413088
270	120	2.85	3.25	1.140351	57.57	50.43	29	240	483	250	980	95	85	458.2601	522.0135	5728251	6525169
271	120	2.5	4.25	1.7	82	50	29	240	483	250	980	95	85	502.25	885.0625	6278125	11063281
272	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
273	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
274	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
275	120	2.5	3.5	1.4	71	51	29	240	483	250	980	95	85	434.875	612.255	5435938	7653188
276	120	2.5	2.85	1.14	57.57	50.43	29	240	483	250	980	95	85	352.6163	401.4253	4407703	5017817
277	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
278	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
279	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
280	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
281	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
282	120	2.85	4	1.403509	71.18	51	29	240	483	250	980	95	85	566.5964	799.68	7082454	9996000
283	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
284	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
285	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
286	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
287	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
288	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	995.52	8816933	12444000
289	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
290	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
291	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
292	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
293	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
294	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	995.52	8816933	12444000
295	120	4	4.25	1.0625	52.38	49.25	29	240	483	250	980	95	85	821.3184	871.7866	10266480	10897332
296	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
297	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
298	120	3.5	4	1.142857	57.57	50.43	29	240	483	250	980	95	85	691.1279	790.7424	8639098	9884280
299	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
300	120	2.85	4	1.403509	71.18	51	29	240	483	400	1220	95	85	705.3547	995.52	8816933	12444000
301	120	4	4.25	1.0625	52.38	49.25	29	240	483	400	1220	95	85	1022.458	1085.285	12780720	13566066
302	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
303	120	3.5	4	1.142857	57.57	50.43	29	240	483	400	1220	95	85	860.3837	984.3936	10754796	12304920
304	120	3.5	4.25	1.214286	61.86	51	29	240	483	400	1220	95	85	924.4977	1123.849	11556221	14048109
305	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	717.36	8967000	8967000
306	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	717.36	8967000	8967000
307	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	717.36	8967000	8967000
308	120	3.5	3.5	1	48	48	29	240	483	400	1220	95	85	717.36	717.36	8967000	8967000

PERHITUNGAN PLAT LANTAI 1 - ATAP

a_x	a_y	A_{sx}	$A_{sx} \min$		$A_{sx} \text{ pakai}$	Tulangan X		A_{sy}	$A_{sy} \min$		$A_{sy} \text{ pakai}$	Tulangan Y	
(mm)	(mm)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	Ø	jarak	(mm ²)	(mm ²)	(mm ²)	(mm ²)	Ø	jarak
Lantai 1													
4.755141	6.992347	488.3926	554.1667	532.9069	554.166667	10	125	718.1723	495.8333	476.8115	718.1722808	10	100
3.711237	4.524946	381.1749	554.1667	532.9069	554.166667	10	125	464.7497	495.8333	476.8115	495.8333333	10	150
3.711237	4.524946	381.1749	554.1667	532.9069	554.166667	10	125	464.7497	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.478472	3.17351	254.5597	554.1667	532.9069	554.166667	10	125	325.9459	495.8333	476.8115	495.8333333	10	150
3.398296	6.849228	349.0333	554.1667	532.9069	554.166667	10	125	703.4728	495.8333	476.8115	703.4728324	10	100
2.935142	4.675765	301.4635	554.1667	532.9069	554.166667	10	125	480.24	495.8333	476.8115	495.8333333	10	150
2.935142	4.675765	301.4635	554.1667	532.9069	554.166667	10	125	480.24	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
1.901251	2.429576	195.2743	554.1667	532.9069	554.166667	10	125	249.5377	495.8333	476.8115	495.8333333	10	150
5.62425	6.742061	577.6573	554.1667	532.9069	577.65731	10	125	692.4659	495.8333	476.8115	692.4658877	10	100
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.074168	4.912763	315.7426	554.1667	532.9069	554.166667	10	125	504.5817	495.8333	476.8115	504.5817082	10	150
5.62425	6.742061	577.6573	554.1667	532.9069	577.65731	10	125	692.4659	495.8333	476.8115	692.4658877	10	100
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
3.842827	6.162542	394.6904	554.1667	532.9069	554.166667	10	125	632.9444	495.8333	476.8115	632.9443895	10	100
5.62425	6.742061	577.6573	554.1667	532.9069	577.65731	10	125	692.4659	495.8333	476.8115	692.4658877	10	100
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
3.842827	6.162542	394.6904	554.1667	532.9069	554.166667	10	125	632.9444	495.8333	476.8115	632.9443895	10	100
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
3.842827	6.162542	394.6904	554.1667	532.9069	554.166667	10	125	632.9444	495.8333	476.8115	632.9443895	10	100
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
4.050419	5.568154	416.0118	554.1667	532.9069	554.166667	10	125	571.8959	495.8333	476.8115	571.895853	10	150
3.127381	3.510258	321.2081	554.1667	532.9069	554.166667	10	125	360.5327	495.8333	476.8115	495.8333333	10	150
3.127381	3.510258	321.2081	554.1667	532.9069	554.166667	10	125	360.5327	495.8333	476.8115	495.8333333	10	150
3.127381	3.510258	321.2081	554.1667	532.9069	554.166667	10	125	360.5327	495.8333	476.8115	495.8333333	10	150

Lantai 2													
3.800112	5.568154	390.3031	554.1667	532.9069	554.166667	10	125	571.8959	495.8333	476.8115	571.895853	10	125
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.478472	3.17351	254.5597	554.1667	532.9069	554.166667	10	125	325.9459	495.8333	476.8115	495.8333333	10	150
2.71989	5.455228	279.3554	554.1667	532.9069	554.166667	10	125	560.2974	495.8333	476.8115	560.2974164	10	125
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
1.901251	2.429576	195.2743	554.1667	532.9069	554.166667	10	125	249.5377	495.8333	476.8115	495.8333333	10	150
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.074168	4.912763	315.7426	554.1667	532.9069	554.166667	10	125	504.5817	495.8333	476.8115	504.5817082	10	150
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
3.842827	6.162542	394.6904	554.1667	532.9069	554.166667	10	125	632.9444	495.8333	476.8115	632.9443895	10	100
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.074168	4.912763	315.7426	554.1667	532.9069	554.166667	10	125	504.5817	495.8333	476.8115	504.5817082	10	150
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.074168	4.912763	315.7426	554.1667	532.9069	554.166667	10	125	504.5817	495.8333	476.8115	504.5817082	10	150
5.62425	6.742061	577.6573	554.1667	532.9069	577.65731	10	125	692.4659	495.8333	476.8115	692.465877	10	100
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
5.070163	6.992347	520.748	554.1667	532.9069	554.166667	10	125	718.1723	495.8333	476.8115	718.1722808	10	100
3.909636	4.393211	401.5522	554.1667	532.9069	554.166667	10	125	451.2194	495.8333	476.8115	495.8333333	10	150
3.909636	4.393211	401.5522	554.1667	532.9069	554.166667	10	125	451.2194	495.8333	476.8115	495.8333333	10	150
3.909636	4.393211	401.5522	554.1667	532.9069	554.166667	10	125	451.2194	495.8333	476.8115	495.8333333	10	150
3.909636	4.393211	401.5522	554.1667	532.9069	554.166667	10	125	451.2194	495.8333	476.8115	495.8333333	10	150
3.800112	5.568154	390.3031	554.1667	532.9069	554.166667	10	125	571.8959	495.8333	476.8115	571.895853	10	125

Lantai 3													
3.800112	5.568154	390.3031	554.1667	532.9069	554.166667	10	125	571.8959	495.8333	476.8115	571.895853	10	125
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.478472	3.17351	254.5597	554.1667	532.9069	554.166667	10	125	325.9459	495.8333	476.8115	495.8333333	10	150
2.71989	5.455228	279.3554	554.1667	532.9069	554.166667	10	125	560.2974	495.8333	476.8115	560.2974164	10	125
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
1.901251	2.429576	195.2743	554.1667	532.9069	554.166667	10	125	249.5377	495.8333	476.8115	495.8333333	10	150
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.074168	4.912763	315.7426	554.1667	532.9069	554.166667	10	125	504.5817	495.8333	476.8115	504.5817082	10	150
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
2.008718	3.195144	206.3121	554.1667	532.9069	554.166667	10	125	328.1679	495.8333	476.8115	495.8333333	10	150
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.074168	4.912763	315.7426	554.1667	532.9069	554.166667	10	125	504.5817	495.8333	476.8115	504.5817082	10	150
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.074168	4.912763	315.7426	554.1667	532.9069	554.166667	10	125	504.5817	495.8333	476.8115	504.5817082	10	100
5.62425	6.742061	577.6573	554.1667	532.9069	577.65731	10	125	692.4659	495.8333	476.8115	692.4658877	10	100
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
5.070163	6.992347	520.748	554.1667	532.9069	554.166667	10	125	718.1723	495.8333	476.8115	718.1722808	10	100
3.909636	4.393211	401.5522	554.1667	532.9069	554.166667	10	125	451.2194	495.8333	476.8115	495.8333333	10	150
3.909636	4.393211	401.5522	554.1667	532.9069	554.166667	10	125	451.2194	495.8333	476.8115	495.8333333	10	150
3.909636	4.393211	401.5522	554.1667	532.9069	554.166667	10	125	451.2194	495.8333	476.8115	495.8333333	10	150
3.909636	4.393211	401.5522	554.1667	532.9069	554.166667	10	125	451.2194	495.8333	476.8115	495.8333333	10	150

Lantai 4													
3.800112	5.568154	390.3031	554.1667	532.9069	554.166667	10	125	571.8959	495.8333	476.8115	571.895853	10	125
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.478472	3.17351	254.5597	554.1667	532.9069	554.166667	10	125	325.9459	495.8333	476.8115	495.8333333	10	150
2.71989	5.455228	279.3554	554.1667	532.9069	554.166667	10	125	560.2974	495.8333	476.8115	560.2974164	10	125
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
1.901251	2.429576	195.2743	554.1667	532.9069	554.166667	10	125	249.5377	495.8333	476.8115	495.8333333	10	150
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.074168	4.912763	315.7426	554.1667	532.9069	554.166667	10	125	504.5817	495.8333	476.8115	504.5817082	10	150
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
3.842827	6.162542	394.6904	554.1667	532.9069	554.166667	10	125	632.9444	495.8333	476.8115	632.9443895	10	100
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
3.842827	6.162542	394.6904	554.1667	532.9069	554.166667	10	125	632.9444	495.8333	476.8115	632.9443895	10	100
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
3.842827	6.162542	394.6904	554.1667	532.9069	554.166667	10	125	632.9444	495.8333	476.8115	632.9443895	10	100
6.38833	7.669854	656.1348	554.1667	532.9069	656.134767	10	100	787.7579	495.8333	476.8115	787.7579025	10	75
5.345326	6.925066	549.0095	554.1667	532.9069	554.166667	10	125	711.262	495.8333	476.8115	711.2619768	10	100
5.345326	6.925066	549.0095	554.1667	532.9069	554.166667	10	125	711.262	495.8333	476.8115	711.2619768	10	100
5.756466	7.956433	591.237	554.1667	532.9069	591.236996	10	125	817.192	495.8333	476.8115	817.1919788	10	75
4.434893	4.98726	455.5005	554.1667	532.9069	554.166667	10	125	512.2332	495.8333	476.8115	512.2331771	10	150
4.434893	4.98726	455.5005	554.1667	532.9069	554.166667	10	125	512.2332	495.8333	476.8115	512.2331771	10	150
4.434893	4.98726	455.5005	554.1667	532.9069	554.166667	10	125	512.2332	495.8333	476.8115	512.2331771	10	150
4.434893	4.98726	455.5005	554.1667	532.9069	554.166667	10	125	512.2332	495.8333	476.8115	512.2331771	10	150

Lantai 5													
3.800112	5.568154	390.3031	554.1667	532.9069	554.166667	10	125	571.8959	495.8333	476.8115	571.895853	10	125
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.478472	3.17351	254.5597	554.1667	532.9069	554.166667	10	125	325.9459	495.8333	476.8115	495.8333333	10	150
2.71989	5.455228	279.3554	554.1667	532.9069	554.166667	10	125	560.2974	495.8333	476.8115	560.2974164	10	125
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
1.901251	2.429576	195.2743	554.1667	532.9069	554.166667	10	125	249.5377	495.8333	476.8115	495.8333333	10	150
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
3.842827	6.162542	394.6904	554.1667	532.9069	554.166667	10	125	632.9444	495.8333	476.8115	632.9443895	10	100
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
3.842827	6.162542	394.6904	554.1667	532.9069	554.166667	10	125	632.9444	495.8333	476.8115	632.9443895	10	100
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
5.345326	6.925066	549.0095	554.1667	532.9069	554.166667	10	125	711.262	495.8333	476.8115	711.2619768	10	100
4.358888	7.006853	447.6941	554.1667	532.9069	554.166667	10	125	719.6622	495.8333	476.8115	719.662157	10	100
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
5.345326	6.925066	549.0095	554.1667	532.9069	554.166667	10	125	711.262	495.8333	476.8115	711.2619768	10	100
4.358888	7.006853	447.6941	554.1667	532.9069	554.166667	10	125	719.6622	495.8333	476.8115	719.662157	10	100
6.38833	7.669854	656.1348	554.1667	532.9069	656.134767	10	100	787.7579	495.8333	476.8115	787.7579025	10	75
5.345326	6.925066	549.0095	554.1667	532.9069	554.166667	10	125	711.262	495.8333	476.8115	711.2619768	10	100
5.345326	6.925066	549.0095	554.1667	532.9069	554.166667	10	125	711.262	495.8333	476.8115	711.2619768	10	100
5.756466	7.956433	591.237	554.1667	532.9069	591.236996	10	125	817.192	495.8333	476.8115	817.1919788	10	75
4.434893	4.98726	455.5005	554.1667	532.9069	554.166667	10	125	512.2332	495.8333	476.8115	512.2331771	10	150
4.434893	4.98726	455.5005	554.1667	532.9069	554.166667	10	125	512.2332	495.8333	476.8115	512.2331771	10	150
4.434893	4.98726	455.5005	554.1667	532.9069	554.166667	10	125	512.2332	495.8333	476.8115	512.2331771	10	150
4.434893	4.98726	455.5005	554.1667	532.9069	554.166667	10	125	512.2332	495.8333	476.8115	512.2331771	10	150

Lantai 6													
3.800112	5.568154	390.3031	554.1667	532.9069	554.166667	10	125	571.8959	495.8333	476.8115	571.895853	10	125
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.478472	3.17351	254.5597	554.1667	532.9069	554.166667	10	125	325.9459	495.8333	476.8115	495.8333333	10	150
2.71989	5.455228	279.3554	554.1667	532.9069	554.166667	10	125	560.2974	495.8333	476.8115	560.2974164	10	125
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
1.901251	2.429576	195.2743	554.1667	532.9069	554.166667	10	125	249.5377	495.8333	476.8115	495.8333333	10	150
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	150
3.842827	6.162542	394.6904	554.1667	532.9069	554.166667	10	125	632.9444	495.8333	476.8115	632.9443895	10	150
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
3.842827	6.162542	394.6904	554.1667	532.9069	554.166667	10	125	632.9444	495.8333	476.8115	632.9443895	10	150
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	150
3.842827	6.162542	394.6904	554.1667	532.9069	554.166667	10	125	632.9444	495.8333	476.8115	632.9443895	10	150
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	150
3.842827	6.162542	394.6904	554.1667	532.9069	554.166667	10	125	632.9444	495.8333	476.8115	632.9443895	10	100
5.62425	6.742061	577.6573	554.1667	532.9069	577.65731	10	125	692.4659	495.8333	476.8115	692.4658877	10	100
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
4.709358	6.091007	483.6904	554.1667	532.9069	554.166667	10	125	625.5972	495.8333	476.8115	625.597156	10	125
5.070163	6.992347	520.748	554.1667	532.9069	554.166667	10	125	718.1723	495.8333	476.8115	718.1722808	10	100
3.909636	4.393211	401.5522	554.1667	532.9069	554.166667	10	125	451.2194	495.8333	476.8115	495.8333333	10	150
3.909636	4.393211	401.5522	554.1667	532.9069	554.166667	10	125	451.2194	495.8333	476.8115	495.8333333	10	150
3.909636	4.393211	401.5522	554.1667	532.9069	554.166667	10	125	451.2194	495.8333	476.8115	495.8333333	10	150
3.909636	4.393211	401.5522	554.1667	532.9069	554.166667	10	125	451.2194	495.8333	476.8115	495.8333333	10	150

Lantai 7													
3.800112	5.568154	390.3031	554.1667	532.9069	554.166667	10	125	571.8959	495.8333	476.8115	571.895853	10	125
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.969332	3.614913	304.9751	554.1667	532.9069	554.166667	10	125	371.2816	495.8333	476.8115	495.8333333	10	150
2.478472	3.17351	254.5597	554.1667	532.9069	554.166667	10	125	325.9459	495.8333	476.8115	495.8333333	10	150
2.71989	5.455228	279.3554	554.1667	532.9069	554.166667	10	125	560.2974	495.8333	476.8115	560.2974164	10	125
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
2.35039	3.734683	241.4046	554.1667	532.9069	554.166667	10	125	383.5831	495.8333	476.8115	495.8333333	10	150
1.901251	2.429576	195.2743	554.1667	532.9069	554.166667	10	125	249.5377	495.8333	476.8115	495.8333333	10	150
4.490222	5.370639	461.1832	554.1667	532.9069	554.166667	10	125	551.6094	495.8333	476.8115	551.6093832	10	125
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	498.7713	495.8333	476.8115	498.7713485	10	150
3.763719	4.856192	386.5653	554.1667	532.9069	554.166667	10	125	4					

PERHITUNGAN BALOK LANTAI 2 - ATAP																								
No. Balok	Tipe Balok	Dimensi		PENULANGAN LENTUR BAGIAN TUMPUAN								PENULANGAN LENTUR BAGIAN LAPANGAN						PENULANGAN GESER BALOK						
		b	d	R_n	ρ	A_s	Tulangan		A_s	Cek	R_n	ρ	A_s	Tulangan		A_s	Cek	ϕV_c	Cek Sengkang	V_s	Cek		s	
		(in.)	(in.)				Jumlah	\emptyset						Jumlah	\emptyset						$V_s < 4 \cdot \sqrt{f'_c} \cdot b \cdot d$	(in.)	(mm)	
LANTAI 2																								
1	B1	19.68504	25.55906	160.6587	0.002907	1.462662	12	22	7.073328	OK	138.0462	0.00249	1.252559	4	22	2.357776	OK	55471.45	TIDAK PERLU		-			
2	B2	15.74803	21.62205	124.2315	0.002236	0.761306	6	22	3.536664	OK	111.0028	0.001994	0.678916	4	22	2.357776	OK	37541.49	TIDAK PERLU		-			
3	B2	15.74803	21.62205	178.3407	0.003236	1.101765	6	22	3.536664	OK	87.50685	0.001566	0.533378	4	22	2.357776	OK	37541.49	TIDAK PERLU		-			
4	B3	11.81102	13.74803	325.5466	0.006044	0.981464	4	22	2.357776	OK	85.08546	0.001523	0.24723	2	22	1.178888	OK	17902.62	PERLU	7756.267	OK	6.874016	174.6	
5	B3	11.81102	13.74803	216.6493	0.003954	0.642008	4	22	2.357776	OK	47.45518	0.000845	0.137144	2	22	1.178888	OK	17902.62	PERLU	10431.3	OK	6.874016	174.6	
6	B1	19.68504	25.55906	679.356	0.013439	6.761563	12	22	7.073328	OK	226.7301	0.004144	2.085071	4	22	2.357776	OK	55471.45	PERLU	3343.355	OK	12.77953	324.6	
7	B2	15.74803	21.62205	150.5457	0.00272	0.926174	6	22	3.536664	OK	57.6115	0.001027	0.349646	4	22	2.357776	OK	37541.49	TIDAK PERLU		-			
8	B1	19.68504	25.55906	259.0942	0.00476	2.394757	12	22	7.073328	OK	219.7358	0.004012	2.018568	4	22	2.357776	OK	55471.45	PERLU	27288.15	OK	12.77953	324.6	
9	B1	19.68504	25.55906	210.0213	0.003829	1.926446	12	22	7.073328	OK	135.1352	0.002436	1.225616	4	22	2.357776	OK	55471.45	TIDAK PERLU		-			
10	B2	15.74803	21.62205	118.2741	0.002127	0.724162	6	22	3.536664	OK	35.31047	0.000627	0.21362	4	22	2.357776	OK	37541.49	TIDAK PERLU		-			
11	B2	15.74803	21.62205	126.9807	0.002286	0.778469	6	22	3.536664	OK	44.56696	0.000793	0.269975	4	22	2.357776	OK	37541.49	TIDAK PERLU		-			
12	B3	11.81102	13.74803	253.2994	0.004649	0.754901	4	22	2.357776	OK	128.8875	0.002321	0.376914	2	22	1.178888	OK	17902.62	PERLU	8552.731	OK	6.874016	174.6	
13	B3	11.81102	13.74803	337.0075	0.006269	1.017915	4	22	2.357776	OK	103.3122	0.001854	0.300988	2	22	1.178888	OK	17902.62	PERLU	7474.75	OK	6.874016	174.6	
14	B1	19.68504	25.55906	252.0776	0.004626	2.32734	12	22	7.073328	OK	193.4662	0.003518	1.770105	4	22	2.357776	OK	55471.45	PERLU	31906.24	OK	12.77953	324.6	
15	B1	19.68504	25.55906	55.06182	0.000981	0.493594	12	22	7.073328	OK	19.01331	0.000337	0.169571	4	22	2.357776	OK	55471.45	TIDAK PERLU		-			
16	B2	15.74803	21.62205	197.806	0.003599	1.225639	6	22	3.536664	OK	91.09933	0.001632	0.555565	4	22	2.357776	OK	37541.49	TIDAK PERLU		-			
17	B1	19.68504	25.55906	142.166	0.002565	1.29073	12	22	7.073328	OK	99.74484	0.001789	0.899943	4	22	2.357776	OK	55471.45	TIDAK PERLU		-			
18	B3	11.81102	13.74803	205.7293	0.003748	0.608626	4	22	2.357776	OK	69.47026	0.00124	0.201402	2	22	1.178888	OK	17902.62	TIDAK PERLU		-			
19	B2	15.74803	21.62205	173.5738	0.003147	1.071544	6	22	3.536664	OK	170.1197	0.003083	1.049673	4	22	2.357776	OK	37541.49	TIDAK PERLU		-			
20	B2	15.74803	21.62205	83.89577	0.001501	0.511099	6	22	3.536664	OK	89.76831	0.001607	0.547342	4	22	2.357776	OK	37541.49	TIDAK PERLU		-			
21	B2	15.74803	21.62205	260.8296	0.004793	1.632003	6	22	3.536664	OK	140.0168	0.002526	0.860049	4	22	2.357776	OK	37541.49	PERLU	21982.28	OK	10.81102	274.6	
22	B3	11.81102	13.74803	226.3805	0.004138	0.671853	4	22	2.357776	OK	73.22663	0.001308	0.212407	2	22	1.178888	OK	17902.62	TIDAK PERLU		-			
23	B2	15.74803	21.62205	196.1176	0.003568	1.214865	6	22	3.536664	OK	96.51851	0.00173	0.589078	4	22	2.357776	OK	37541.49	TIDAK PERLU		-			
24	B3	11.81102	13.74803	96.98010	0.001738	0.282282	4	22	2.357776	OK	53.45933	0.000952	0.154629	2	22	1.178888	OK	17902.62	TIDAK PERLU		-			
25	B1	19.68504	25.55906	243.2176	0.004457	2.242432	12	22	7.073328	OK	190.8636	0.003469	1.7456	4	22	2.357776	OK	55471.45	PERLU	31813.72	OK	12.77953	324.6	
26	B1	19.68504	25.55906	288.9683	0.005334	2.683539	12	22	7.073328	OK	205.7611	0.003749	1.886135	4	22	2.357776	OK	55471.45	PERLU	26621.48	OK	12.77953	324.6	
27	B3	11.81102	13.74803	252.6168	0.004636	0.752786	4	22	2.357776	OK	104.619	0.001877	0.304854	2	22	1.178888	OK	17902.62	TIDAK PERLU		-			
28	B1	19.68504	25.55906	151.1158	0.002731	1.373818	12	22	7.073328	OK	117.3244	0.002109	1.061285	4	22	2.357776	OK	55471.45	TIDAK PERLU		-			
29	B3	11.81102	13.74803	316.1792	0.005861	0.951777	4	22	2.357776	OK	199.4063	0.003629	0.58935	2	22	1.178888	OK	17902.62	PERLU	7539.151	OK	6.874016	174.6	
30	B3	11.81102	13.74803	296.2706	0.005475	0.888996	4	22	2.357776	OK	103.6189	0.001859	0.301895	2	22	1.178888	OK	17902.62	TIDAK PERLU		-			
LANTAI 3																								
31	B1	19.68504	25.55906	157.8796	0.002856	1.436762	12	22	7.073328	OK	137.7424	0.002484	1.249747	4	22	2.357776	OK	55471.45	TIDAK PERLU		-			
32	B2	15.74803	21.62205	123.2858	0.002218	0.755405	6	22	3.536664	OK	108.5331	0.001949	0.66357	4	22	2.357776	OK	37541.49	TIDAK PERLU		-			
33	B2	15.74803	21.62205	171.6946	0.003112	1.059643	6	22	3.536664	OK	65.18787	0.001163	0.396058	4	22	2.357776	OK	37541.49	TIDAK PERLU		-			
34	B3	11.81102	13.74803	334.2534	0.006215	1.009142	4	22	2.357776	OK	102.2754	0.001835	0.297922	2	22	1.178888	OK	17902.62	PERLU	7583.113	OK	6.874016	174.6	
35	B3	11.81102	13.74803	231.4618	0.004234	0.687474	4	22	2.357776	OK	104.5767	0.001877	0.304729	2	22	1.178888	OK	17902.62	PERLU	10113.24	OK	6.874016	174.6	
36	B1	19.68504	25.55906	673.3517	0.013304	6.693826	12	22	7.073328	OK	222.6061	0.004066	2.045842	4	22	2.357776	OK	55471.45	PERLU	5441.402	OK	12.77953	324.6	
37	B2	15.74803	21.62205	144.6683	0.002612	0.889236	6	22	3.536664	OK	52.93649	0.000943	0.321058	4	22	2.357776	OK	37541.49	TIDAK PERLU		-			
38	B1	19.68504	25.55906	260.274	0.004782	2.406108	12	22	7.073328	OK	219.1947	0.004002	2.013429	4	22	2.357776	OK	55471.45	PERLU	27232.99	OK	12.77953	324.6	
39	B1	19.68504	25.55906	215.3362	0.003929	1.976811	12	22	7.073328	OK	169.0773	0.003063	1.541256	4	22	2.357776	OK	55471.45	TIDAK PERLU		-			
40	B2	15.74803	21.62205	120.9959	0.002177	0.741124	6	22	3.536664	OK	38.66952	0.000687	0.234053	4	22	2.357776	OK	37541.49	TIDAK PERLU		-			
41	B2	15.74803	21.62205	126.7313	0.002282	0.776912	6	22	3.536664	OK	69.69023	0.001244	0.423687	4	22	2.357776	OK	37541.49	TIDAK PERLU		-			
42	B3	11.81102	13.74803	268.0129	0.00493	0.800602	4	22	2.357776	OK	50.26198	0.000895	0.145314	2	22	1.178888	OK	17902.62	PERLU	8236.822	OK	6.874016	174.6	
43	B3	11.81102	13.74803	345.7507	0.006441	1.045819	4	22	2.357776	OK	78.76939	0.001408	0.228668	2	22	1.178888	OK	17902.62	PERLU	7317.418	OK	6.874016	174.6	
44	B1	19.68504	25.55906	258.2518	0.004744	2.386655	12	22	7.073328	OK	206.2388	0.003758	1.890653	4	22	2.357776	OK	55471.45	PERLU	28528.01	OK	12.77953	324.6	
45	B1	19.68504	25.55906	60.57032	0.00108	0.543403	12	22	7.073328	OK	20.49982	0.000363	0.182867	4	22	2.357776	OK	55471.45	TIDAK PERLU		-			
46	B2	15.74803	21.62205	201.2435	0.003664	1.247594	6	22	3.536664	OK	88.1347	0.001578	0.537253	4	22	2.357776	OK	37541.49	TIDAK PERLU		-			
47	B1	19.68504	25.55906	142.316	0.002568	1.29212																		

55	B1	19.68504	25.55906	242.9023	0.004451	2.239414	12	22	7.073328	OK	191.6612	0.003484	1.753108	4	22	2.357776	OK	55471.45	PERLU	31772.04	OK	12.77953	324.6
56	B1	19.68504	25.55906	275.2069	0.005069	2.550158	12	22	7.073328	OK	207.9994	0.003791	1.907308	4	22	2.357776	OK	55471.45	PERLU	28906.99	OK	12.77953	324.6
57	B3	11.81102	13.74803	365.1914	0.006825	1.10817	4	22	2.357776	OK	147.1596	0.002657	0.431518	2	22	1.178888	OK	17902.62	PERLU	9257.587	OK	6.874016	174.6
58	B1	19.68504	25.55906	153.4546	0.002774	1.395568	12	22	7.073328	OK	117.8847	0.00212	1.06644	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
59	B3	11.81102	13.74803	319.0327	0.005917	0.96081	4	22	2.357776	OK	125.4465	0.002258	0.366665	2	22	1.178888	OK	17902.62	PERLU	9157.29	OK	6.874016	174.6
60	B3	11.81102	13.74803	294.4121	0.005439	0.883157	4	22	2.357776	OK	105.2062	0.001888	0.306591	2	22	1.178888	OK	17902.62	TIDAK PERLU	-	-	-	-
LANTAI 4																							
61	B1	19.68504	25.55906	161.1046	0.002915	1.46682	12	22	7.073328	OK	137.6309	0.002482	1.248714	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
62	B2	15.74803	21.62205	132.9952	0.002397	0.816068	6	22	3.536664	OK	118.1335	0.002124	0.723287	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
63	B2	15.74803	21.62205	184.3386	0.003348	1.139855	6	22	3.536664	OK	98.80683	0.001772	0.603245	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
64	B3	11.81102	13.74803	385.7177	0.007233	1.174466	4	22	2.357776	OK	115.6959	0.00208	0.337679	2	22	1.178888	OK	17902.62	PERLU	5413.171	OK	6.874016	174.6
65	B3	11.81102	13.74803	275.0081	0.005065	0.822407	4	22	2.357776	OK	120.1414	0.002161	0.350884	2	22	1.178888	OK	17902.62	PERLU	8143.061	OK	6.874016	174.6
66	B1	19.68504	25.55906	668.7619	0.013202	6.642169	12	22	7.073328	OK	221.0632	0.004037	2.031178	4	22	2.357776	OK	55471.45	PERLU	4930.5	OK	12.77953	324.6
67	B2	15.74803	21.62205	155.7987	0.002817	0.959245	6	22	3.536664	OK	55.73922	0.000993	0.338193	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
68	B1	19.68504	25.55906	261.1525	0.004799	2.414562	12	22	7.073328	OK	218.8426	0.003995	2.010086	4	22	2.357776	OK	55471.45	PERLU	27187.49	OK	12.77953	324.6
69	B1	19.68504	25.55906	217.7637	0.003975	1.999843	12	22	7.073328	OK	169.0689	0.003063	1.541178	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
70	B2	15.74803	21.62205	132.6993	0.002391	0.814217	6	22	3.536664	OK	42.66861	0.000759	0.258405	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
71	B2	15.74803	21.62205	137.0239	0.002471	0.841291	6	22	3.536664	OK	74.4014	0.001329	0.452637	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
72	B3	11.81102	13.74803	276.3344	0.00509	0.826547	4	22	2.357776	OK	120.5349	0.002168	0.352054	2	22	1.178888	OK	17902.62	PERLU	8088.749	OK	6.874016	174.6
73	B3	11.81102	13.74803	352.8651	0.006581	1.068587	4	22	2.357776	OK	114.2984	0.002054	0.333532	2	22	1.178888	OK	17902.62	PERLU	7166.907	OK	6.874016	174.6
74	B1	19.68504	25.55906	278.6497	0.005135	2.58347	12	22	7.073328	OK	219.6038	0.00401	2.017314	4	22	2.357776	OK	55471.45	PERLU	25937.14	OK	12.77953	324.6
75	B1	19.68504	25.55906	66.72695	0.001191	0.599166	12	22	7.073328	OK	21.15004	0.000375	0.188685	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
76	B2	15.74803	21.62205	202.8707	0.003694	1.257994	6	22	3.536664	OK	87.83735	0.001572	0.535418	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
77	B1	19.68504	25.55906	150.8738	0.002726	1.371568	12	22	7.073328	OK	107.2485	0.001925	0.968707	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
78	B3	11.81102	13.74803	230.5814	0.004217	0.684766	4	22	2.357776	OK	86.50247	0.001548	0.251399	2	22	1.178888	OK	17902.62	TIDAK PERLU	-	-	-	-
79	B2	15.74803	21.62205	166.4548	0.003015	1.026493	6	22	3.536664	OK	171.4779	0.003108	1.058271	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
80	B2	15.74803	21.62205	83.81088	0.001499	0.510576	6	22	3.536664	OK	94.33198	0.00169	0.57555	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
81	B2	15.74803	21.62205	261.5189	0.004806	1.636494	6	22	3.536664	OK	140.6146	0.002537	0.863797	4	22	2.357776	OK	37541.49	PERLU	21961.53	OK	10.81102	274.6
82	B3	11.81102	13.74803	209.4688	0.003819	0.620044	4	22	2.357776	OK	57.15436	0.001019	0.165404	2	22	1.178888	OK	17902.62	TIDAK PERLU	-	-	-	-
83	B2	15.74803	21.62205	193.0913	0.003511	1.195566	6	22	3.536664	OK	94.29307	0.00169	0.575309	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
84	B3	11.81102	13.74803	102.4715	0.001838	0.298502	4	22	2.357776	OK	79.86585	0.001428	0.231888	2	22	1.178888	OK	17902.62	TIDAK PERLU	-	-	-	-
85	B1	19.68504	25.55906	259.6573	0.00477	2.400173	12	22	7.073328	OK	207.108	0.003774	1.898874	4	22	2.357776	OK	55471.45	PERLU	29521.82	OK	12.77953	324.6
86	B1	19.68504	25.55906	283.363	0.005226	2.629136	12	22	7.073328	OK	220.671	0.00403	2.027452	4	22	2.357776	OK	55471.45	PERLU	26015.93	OK	12.77953	324.6
87	B3	11.81102	13.74803	36.52994	0.000649	0.105406	4	22	2.357776	OK	147.0093	0.002655	0.431067	2	22	1.178888	OK	17902.62	PERLU	9252.815	OK	6.874016	174.6
88	B1	19.68504	25.55906	163.6993	0.002963	1.491025	12	22	7.073328	OK	126.2626	0.002273	1.143643	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
89	B3	11.81102	13.74803	328.1698	0.006096	0.989794	4	22	2.357776	OK	124.0463	0.002232	0.362497	2	22	1.178888	OK	17902.62	PERLU	9002.474	OK	6.874016	174.6
90	B3	11.81102	13.74803	343.9837	0.006406	1.040173	4	22	2.357776	OK	120.9056	0.002175	0.353155	2	22	1.178888	OK	17902.62	PERLU	8748.865	OK	6.874016	174.6
LANTAI 5																							
91	B1	19.68504	25.55906	163.1077	0.002953	1.485504	12	22	7.073328	OK	137.7341	0.002484	1.24967	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
92	B2	15.74803	21.62205	133.0894	0.002398	0.816657	6	22	3.536664	OK	98.65737	0.001769	0.60232	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
93	B2	15.74803	21.62205	180.9728	0.003285	1.118472	6	22	3.536664	OK	100.1863	0.001797	0.611791	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
94	B3	11.81102	13.74803	421.0575	0.007943	1.289756	4	22	2.357776	OK	125.3882	0.002257	0.366491	2	22	1.178888	OK	17902.62	PERLU	3948.317	OK	6.874016	174.6
95	B3	11.81102	13.74803	305.8178	0.00566	0.91905	4	22	2.357776	OK	129.9641	0.002341	0.380123	2	22	1.178888	OK	17902.62	PERLU	6790.877	OK	6.874016	174.6
96	B1	19.68504	25.55906	664.9975	0.013118	6.599881	12	22	7.073328	OK	219.7843	0.004013	2.019029	4	22	2.357776	OK	55471.45	PERLU	4514.164	OK	12.77953	324.6
97	B2	15.74803	21.62205	153.1604	0.002768	0.942628	6	22	3.536664	OK	53.60626	0.000955	0.325152	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
98	B1	19.68504	25.55906	262.6343	0.004827	2.42883	12	22	7.073328	OK	194.1521	0.003531	1.776566	4	22	2.357776	OK	55471.45	PERLU	27041.42	OK	12.77953	324.6
99	B1	19.68504	25.55906	219.3235	0.004004	2.014652	12	22	7.073328	OK	168.8612	0.003059	1.539236	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
100	B2	15.74803	21.62205	133.7858	0.002411	0.821015	6	22	3.536664	OK	42.90217	0.000763	0.259828	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
101	B2	15.74803	21.62205	136.6136	0.002463	0.838721	6	22	3.536664	OK	74.70307	0.001335	0.454492	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
102	B3	11.81102	13.74803	281.1376	0.005183	0.841554	4	22	2.357776	OK	117.1367	0.002106	0.341957	2	22	1.178888	OK	17902.62	PERLU	8044.32	OK	6.874016	174.6
103	B3	11.81102	13.74803	404.224	0.007604	1.234656	4	22	2.357776	OK	127.3033	0.002292	0.372194	2	22	1.178888	OK	17902.62	PERLU	4977.175	OK	6.874016	174.6
104	B1	19.68504	25.55906	293.6015	0.005423	2.728583	12	22	7.073328	OK	228.4326	0.004176	2.101282	4	22	2.357776	OK	55471.45	PERLU	24099.91	OK	12.77953	324.6
105	B1	19.68504	25.55906	70.87757	0.001266	0.6368																	

113	B2	15.74803	21.62205	192.9933	0.003509	1.194942	6	22	3.536664	OK	94.2023	0.001688	0.574747	4	22	2.357776	OK	37541.49	TIDAK PERLU	-
114	B3	11.81102	13.74803	109.6283	0.001969	0.319685	4	22	2.357776	OK	78.37323	0.001401	0.227505	2	22	1.178888	OK	17902.62	TIDAK PERLU	-

115	B1	19.68504	25.55906	260.6975	0.00479	2.410183	12	22	7.073328	OK	206.4429	0.003762	1.892583	4	22	2.357776	OK	55471.45	PERLU	29516.01	OK	12.77953	324.6
116	B1	19.68504	25.55906	286.8256	0.005292	2.662731	12	22	7.073328	OK	223.3443	0.00408	2.05286	4	22	2.357776	OK	55471.45	PERLU	25825.74	OK	12.77953	324.6
117	B3	11.81102	13.74803	411.0066	0.00774	1.256816	4	22	2.357776	OK	157.1698	0.002843	0.461561	2	22	1.178888	OK	17902.62	PERLU	7367.45	OK	6.874016	174.6
118	B1	19.68504	25.55906	164.4403	0.002977	1.497941	12	22	7.073328	OK	126.6214	0.00228	1.146954	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
119	B3	11.81102	13.74803	333.4395	0.006199	1.006551	4	22	2.357776	OK	123.146	0.002216	0.359818	2	22	1.178888	OK	17902.62	PERLU	8915.041	OK	6.874016	174.6
120	B3	11.81102	13.74803	376.8476	0.007056	1.145758	4	22	2.357776	OK	131.6114	0.002371	0.385035	2	22	1.178888	OK	17902.62	PERLU	7473.012	OK	6.874016	174.6
LANTAI 6																							
121	B1	19.68504	25.55906	163.458	0.002959	1.488773	12	22	7.073328	OK	138.3013	0.002494	1.254922	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
122	B2	15.74803	21.62205	124.344	0.002238	0.762008	6	22	3.536664	OK	107.1554	0.001924	0.655015	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
123	B2	15.74803	21.62205	162.6497	0.002944	1.002455	6	22	3.536664	OK	93.64243	0.001678	0.571285	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
124	B3	11.81102	13.74803	395.4523	0.007428	1.206077	4	22	2.357776	OK	121.9982	0.002195	0.356404	2	22	1.178888	OK	17902.62	PERLU	5196.158	OK	6.874016	174.6
125	B3	11.81102	13.74803	288.9687	0.005334	0.866075	4	22	2.357776	OK	115.6808	0.002079	0.337634	2	22	1.178888	OK	17902.62	PERLU	7842.895	OK	6.874016	174.6
126	B1	19.68504	25.55906	660.6829	0.013021	6.551499	12	22	7.073328	OK	219.69	0.004011	2.018133	4	22	2.357776	OK	55471.45	PERLU	4156.264	OK	12.77953	324.6
127	B2	15.74803	21.62205	137.9664	0.002488	0.847196	6	22	3.536664	OK	47.4116	0.000844	0.287323	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
128	B1	19.68504	25.55906	262.958	0.004834	2.431947	12	22	7.073328	OK	220.1103	0.004019	2.022125	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
129	B1	19.68504	25.55906	220.6152	0.004029	2.026921	12	22	7.073328	OK	169.8424	0.003078	1.548408	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
130	B2	15.74803	21.62205	57.00513	0.001016	0.345936	6	22	3.536664	OK	39.39758	0.0007	0.238484	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
131	B2	15.74803	21.62205	125.1621	0.002253	0.767114	6	22	3.536664	OK	69.64373	0.001243	0.423402	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
132	B3	11.81102	13.74803	287.6662	0.005309	0.861992	4	22	2.357776	OK	56.74524	0.001011	0.16421	2	22	1.178888	OK	17902.62	PERLU	7884.187	OK	6.874016	174.6
133	B3	11.81102	13.74803	407.9143	0.007678	1.246706	4	22	2.357776	OK	89.93829	0.001611	0.261514	2	22	1.178888	OK	17902.62	PERLU	4897.808	OK	6.874016	174.6
134	B1	19.68504	25.55906	285.617	0.005269	2.651	12	22	7.073328	OK	206.3458	0.00376	1.891665	4	22	2.357776	OK	55471.45	PERLU	25263.77	OK	12.77953	324.6
135	B1	19.68504	25.55906	72.82501	0.001301	0.654498	12	22	7.073328	OK	23.11983	0.00041	0.206315	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
136	B2	15.74803	21.62205	206.1148	0.003755	1.278746	6	22	3.536664	OK	86.89027	0.001555	0.529572	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
137	B1	19.68504	25.55906	143.6235	0.002592	1.304246	12	22	7.073328	OK	101.367	0.001818	0.914796	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
138	B3	11.81102	13.74803	249.0017	0.004567	0.741593	4	22	2.357776	OK	99.4759	0.001784	0.289649	2	22	1.178888	OK	17902.62	TIDAK PERLU	-	-	-	-
139	B2	15.74803	21.62205	175.7788	0.003188	1.085518	6	22	3.536664	OK	165.7782	0.003002	1.022217	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
140	B2	15.74803	21.62205	85.38909	0.001528	0.520309	6	22	3.536664	OK	97.15527	0.001742	0.593019	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
141	B2	15.74803	21.62205	264.2527	0.004858	1.654313	6	22	3.536664	OK	142.3527	0.002569	0.874701	4	22	2.357776	OK	37541.49	PERLU	21764.41	OK	10.81102	274.6
142	B3	11.81102	13.74803	203.1834	0.0037	0.60086	4	22	2.357776	OK	52.46829	0.000934	0.151741	2	22	1.178888	OK	17902.62	TIDAK PERLU	-	-	-	-
143	B2	15.74803	21.62205	193.7384	0.003523	1.199691	6	22	3.536664	OK	94.74251	0.001698	0.578089	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
144	B3	11.81102	13.74803	110.5778	0.001986	0.322499	4	22	2.357776	OK	51.39473	0.000915	0.148613	2	22	1.178888	OK	17902.62	TIDAK PERLU	-	-	-	-
145	B1	19.68504	25.55906	242.3264	0.00444	2.233905	12	22	7.073328	OK	193.6708	0.003522	1.772032	4	22	2.357776	OK	55471.45	PERLU	31749.79	OK	12.77953	324.6
146	B1	19.68504	25.55906	266.4546	0.004901	2.465643	12	22	7.073328	OK	206.6994	0.003766	1.895009	4	22	2.357776	OK	55471.45	PERLU	28512.78	OK	12.77953	324.6
147	B3	11.81102	13.74803	411.1958	0.007744	1.257436	4	22	2.357776	OK	157.2048	0.002843	0.461666	2	22	1.178888	OK	17902.62	PERLU	7474.854	OK	6.874016	174.6
148	B1	19.68504	25.55906	154.5444	0.002794	1.405708	12	22	7.073328	OK	118.8226	0.002137	1.075074	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
149	B3	11.81102	13.74803	328.8826	0.00611	0.992059	4	22	2.357776	OK	124.5177	0.002241	0.3639	2	22	1.178888	OK	17902.62	PERLU	8978.767	OK	6.874016	174.6
150	B3	11.81102	13.74803	343.4005	0.006394	1.03831	4	22	2.357776	OK	121.7752	0.002191	0.355741	2	22	1.178888	OK	17902.62	PERLU	8743.133	OK	6.874016	174.6
LANTAI 7																							
151	B1	19.68504	25.55906	165.5021	0.002997	1.507854	12	22	7.073328	OK	138.0938	0.00249	1.253	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
152	B2	15.74803	21.62205	123.1878	0.002217	0.754794	6	22	3.536664	OK	105.4926	0.001893	0.644694	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
153	B2	15.74803	21.62205	159.3345	0.002883	0.981534	6	22	3.536664	OK	93.96978	0.001684	0.573309	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
154	B3	11.81102	13.74803	429.9609	0.008123	1.319036	4	22	2.357776	OK	131.5971	0.002371	0.384992	2	22	1.178888	OK	17902.62	PERLU	3778.069	OK	6.874016	174.6
155	B3	11.81102	13.74803	317.3578	0.005884	0.955507	4	22	2.357776	OK	126.0146	0.002269	0.368356	2	22	1.178888	OK	17902.62	PERLU	6551.014	OK	6.874016	174.6
156	B1	19.68504	25.55906	663.4111	0.013082	6.582081	12	22	7.073328	OK	190.5023	0.003463	1.742201	4	22	2.357776	OK	55471.45	PERLU	4215.166	OK	12.77953	324.6
157	B2	15.74803	21.62205	134.8687	0.002431	0.827794	6	22	3.536664	OK	38.48286	0.000684	0.232917	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
158	B1	19.68504	25.55906	265.2177	0.004877	2.453718	12	22	7.073328	OK	194.8192	0.003544	1.782851	4	22	2.357776	OK	55471.45	PERLU	26744.75	OK	12.77953	324.6
159	B1	19.68504	25.55906	221.3276	0.004042	2.03369	12	22	7.073328	OK	168.6639	0.003056	1.537392	4	22	2.357776	OK	55471.45	TIDAK PERLU	-	-	-	-
160	B2	15.74803	21.62205	124.92	0.002248	0.765603	6	22	3.536664	OK	39.33601	0.000699	0.23811	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
161	B2	15.74803	21.62205	125.2117	0.002254	0.767424	6	22	3.536664	OK	69.65094	0.001244	0.423446	4	22	2.357776	OK	37541.49	TIDAK PERLU	-	-	-	-
162	B3	11.81102	13.74803	294.8247	0.005447	0.884453	4	22	2.357776	OK	61.31683	0.001093	0.177556	2	22	1.178888	OK	17902.62	PERLU	7720.759	OK	6.874016	174.6
163	B3	11.81102	13.74803	367.7455	0.006875	1.116393	4	22	2.357776	OK	70.75723	0.001264	0.205171	2	22	1.178888	OK	17902.62	PERLU	6875.56	OK	6.874016	174.6
164	B1	19.68504	25.55906	297.9817	0.005508	2.771232	12	22	7.073328	OK	228.8589	0.004184	2.105343	4	22	2.357776	OK	55471.45	PERLU	23684.35	OK	12.77953	324.6
165	B1	19.68504																					

173	B2	15.74803	21.62205	193.1079	0.003511	1.195672	6	22	3.536664	OK	94.00004	0.001684	0.573497	4	22	2.357776	OK	37541.49	TIDAK PERLU	-
174	B3	11.81102	13.74803	105.3949	0.001892	0.30715	4	22	2.357776	OK	82.71542	0.00148	0.24026	2	22	1.178888	OK	17902.62	TIDAK PERLU	-

175	B1	19.68504	25.55906	240.4021	0.004403	2.215501	12	22	7.073328	OK	194.3447	0.003535	1.77838	4	22	2.357776	OK	55471.45	PERLU	27372.24	OK	12.77953	324.6
176	B1	19.68504	25.55906	269.7736	0.004964	2.497663	12	22	7.073328	OK	207.71	0.003785	1.904569	4	22	2.357776	OK	55471.45	PERLU	28112.55	OK	12.77953	324.6
177	B3	11.81102	13.74803	364.7257	0.006815	1.106671	4	22	2.357776	OK	69.43354	0.00124	0.201294	2	22	1.178888	OK	17902.62	PERLU	9259.351	OK	6.874016	174.6
178	B1	19.68504	25.55906	151.934	0.002746	1.381425	12	22	7.073328	OK	118.9753	0.00214	1.076479	4	22	2.357776	OK	55471.45	TIDAK PERLU		-		
179	B3	11.81102	13.74803	336.8438	0.006266	1.017393	4	22	2.357776	OK	123.334	0.002219	0.360378	2	22	1.178888	OK	17902.62	PERLU	8843.144	OK	6.874016	174.6
180	B3	11.81102	13.74803	375.6462	0.007032	1.141877	4	22	2.357776	OK	132.7657	0.002392	0.388478	2	22	1.178888	OK	17902.62	PERLU	7473.92	OK	6.874016	174.6
LANTAI ATAP																							
181	B1	19.68504	25.55906	159.1132	0.002878	1.448256	12	22	7.073328	OK	139.3417	0.002513	1.264558	4	22	2.357776	OK	55471.45	TIDAK PERLU		-		
182	B2	15.74803	21.62205	117.5764	0.002114	0.719817	6	22	3.536664	OK	99.11781	0.001777	0.605172	4	22	2.357776	OK	37541.49	TIDAK PERLU		-		
183	B2	15.74803	21.62205	144.2315	0.002603	0.886493	6	22	3.536664	OK	85.33839	0.001527	0.519997	4	22	2.357776	OK	37541.49	TIDAK PERLU		-		
184	B3	11.81102	13.74803	372.5413	0.00697	1.131853	4	22	2.357776	OK	122.9693	0.002213	0.359293	2	22	1.178888	OK	17902.62	PERLU	6744.165	OK	6.874016	174.6
185	B3	11.81102	13.74803	246.0177	0.00451	0.732365	4	22	2.357776	OK	100.6946	0.001806	0.29325	2	22	1.178888	OK	17902.62	PERLU	9775.984	OK	6.874016	174.6
186	B1	19.68504	25.55906	631.3686	0.012373	6.225206	12	22	7.073328	OK	221.3842	0.004043	2.034228	4	22	2.357776	OK	55471.45	PERLU	2248.956	OK	12.77953	324.6
187	B2	15.74803	21.62205	124.7461	0.002245	0.764517	6	22	3.536664	OK	45.12119	0.000803	0.273354	4	22	2.357776	OK	37541.49	TIDAK PERLU		-		
188	B1	19.68504	25.55906	269.2991	0.004955	2.493084	12	22	7.073328	OK	222.2171	0.004059	2.042144	4	22	2.357776	OK	55471.45	PERLU	26191.37	OK	12.77953	324.6
189	B1	19.68504	25.55906	216.9483	0.003959	1.992105	12	22	7.073328	OK	167.3557	0.003031	1.525167	4	22	2.357776	OK	55471.45	TIDAK PERLU		-		
190	B2	15.74803	21.62205	104.9758	0.001884	0.641487	6	22	3.536664	OK	33.90884	0.000602	0.2051	4	22	2.357776	OK	37541.49	TIDAK PERLU		-		
191	B2	15.74803	21.62205	109.6709	0.00197	0.670639	6	22	3.536664	OK	37.32527	0.000663	0.225874	4	22	2.357776	OK	37541.49	TIDAK PERLU		-		
192	B3	11.81102	13.74803	246.1944	0.004514	0.732911	4	22	2.357776	OK	100.7503	0.001807	0.293415	2	22	1.178888	OK	17902.62	PERLU	9768.644	OK	6.874016	174.6
193	B3	11.81102	13.74803	358.6213	0.006695	1.08705	4	22	2.357776	OK	116.1668	0.002088	0.339077	2	22	1.178888	OK	17902.62	PERLU	6921.183	OK	6.874016	174.6
194	B1	19.68504	25.55906	282.062	0.0052	2.616524	12	22	7.073328	OK	219.2297	0.004002	2.013762	4	22	2.357776	OK	55471.45	PERLU	25346.19	OK	12.77953	324.6
195	B1	19.68504	25.55906	205.9097	0.003752	1.887541	12	22	7.073328	OK	72.25556	0.001291	0.649327	4	22	2.357776	OK	55471.45	TIDAK PERLU		-		
196	B2	15.74803	21.62205	196.5217	0.003575	1.217443	6	22	3.536664	OK	94.81574	0.001699	0.578542	4	22	2.357776	OK	37541.49	TIDAK PERLU		-		
197	B1	19.68504	25.55906	178.6715	0.003242	1.631074	12	22	7.073328	OK	117.831	0.002119	1.065947	4	22	2.357776	OK	55471.45	TIDAK PERLU		-		
198	B3	11.81102	13.74803	240.1246	0.004398	0.714165	4	22	2.357776	OK	91.82922	0.001645	0.267086	2	22	1.178888	OK	17902.62	TIDAK PERLU		-		
199	B2	15.74803	21.62205	180.4743	0.003275	1.115307	6	22	3.536664	OK	178.586	0.00324	1.103322	4	22	2.357776	OK	37541.49	TIDAK PERLU		-		
200	B2	15.74803	21.62205	85.62972	0.001532	0.521794	6	22	3.536664	OK	99.10667	0.001777	0.605103	4	22	2.357776	OK	37541.49	TIDAK PERLU		-		
201	B2	15.74803	21.62205	264.9523	0.004872	1.658876	6	22	3.536664	OK	142.3003	0.002568	0.874372	4	22	2.357776	OK	37541.49	PERLU	21615.58	OK	10.81102	274.6
202	B3	11.81102	13.74803	211.5632	0.003858	0.626446	4	22	2.357776	OK	79.10507	0.001414	0.229654	2	22	1.178888	OK	17902.62	TIDAK PERLU		-		
203	B2	15.74803	21.62205	200.3054	0.003646	1.2416	6	22	3.536664	OK	100.7599	0.001807	0.615345	4	22	2.357776	OK	37541.49	TIDAK PERLU		-		
204	B3	11.81102	13.74803	105.811	0.001899	0.308381	4	22	2.357776	OK	86.623	0.00155	0.251753	2	22	1.178888	OK	17902.62	TIDAK PERLU		-		
205	B1	19.68504	25.55906	219.5406	0.004008	2.016714	12	22	7.073328	OK	171.6047	0.00311	1.564891	4	22	2.357776	OK	55471.45	TIDAK PERLU		-		
206	B1	19.68504	25.55906	272.432	0.005015	2.523336	12	22	7.073328	OK	177.9974	0.003229	1.624755	4	22	2.357776	OK	55471.45	PERLU	29931.47	OK	12.77953	324.6
207	B3	11.81102	13.74803	357.0319	0.006663	1.081949	4	22	2.357776	OK	139.754	0.002521	0.40935	2	22	1.178888	OK	17902.62	PERLU	9302.899	OK	6.874016	174.6
208	B1	19.68504	25.55906	143.4686	0.002589	1.302809	12	22	7.073328	OK	106.7987	0.001917	0.96458	4	22	2.357776	OK	55471.45	TIDAK PERLU		-		
209	B3	11.81102	13.74803	279.7149	0.005155	0.837107	4	22	2.357776	OK	108.162	0.001942	0.315341	2	22	1.178888	OK	17902.62	TIDAK PERLU		-		
210	B3	11.81102	13.74803	305.0535	0.005645	0.916641	4	22	2.357776	OK	107.7326	0.001934	0.31407	2	22	1.178888	OK	17902.62	PERLU	10501.04	OK	6.874016	174.6

TABEL CEK PENAMPANG PILECAP																																		
No.	Tipe PC	Pu	φ	ƒ _c	ƒ _t	Kolom		PC			σ	d	G'	Vu	φVc	Cek	B'	Vu	Vc1	Vc2	Vc3	Vc pakai	ØVc	Cek	B'	q'	Mu	Tulangan			As	a	φMn	Cek
		ton		MPa	MPa	B	L	B	L	d	ton/m ²	mm	m	ton	ton	m	ton	ton	ton	ton	ton	ton	m	kg/m	kN.m	D	Jarak	jumlah	mm ²	mm	kN.m	mm	kN.m	Cek
						mm	mm	mm	mm	mm																mm	mm	tulangan						
1	PC2	7	0.75	37.35	400	800	1000	2800	1200	800	0.0	725	0.2	0.0	66.46	OK	1.7	3.1	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	20.0	25	150	26	12767.86	0.06	2962.03	OK
2	PC2	7	0.75	37.35	400	800	1000	2800	1200	800	2.2	725	0.2	0.46	66.46	OK	1.7	-3.4	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	20.3	25	150	26	12767.86	57.45	2844.78	OK
3	PC2	8	0.75	37.35	400	800	1000	2800	1200	800	2.4	725	0.2	0.51	66.46	OK	1.7	-3.7	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	23.4	25	150	26	12767.86	57.45	2844.78	OK
4	PC2	126	0.75	37.35	400	800	1000	2800	1200	800	37.4	725	0.2	7.85	66.46	OK	1.7	-57.4	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	492.9	25	150	26	12767.86	57.45	2844.78	OK
5	PC2	127	0.75	37.35	400	800	1000	2800	1200	800	37.8	725	0.2	7.93	66.46	OK	1.7	-58.0	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	498.5	25	150	26	12767.86	57.45	2844.78	OK
6	PC2	142	0.75	37.35	400	800	1000	2800	1200	800	42.2	725	0.2	8.87	66.46	OK	1.7	-64.9	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	558.3	25	150	26	12767.86	57.45	2844.78	OK
7	PC2	175	0.75	37.35	400	800	1000	2800	1200	800	52.0	725	0.2	10.92	66.46	OK	1.7	-79.8	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	689.4	25	150	26	12767.86	57.45	2844.78	OK
8	PC2	216	0.75	37.35	400	800	1000	2800	1200	800	64.2	725	0.2	13.48	66.46	OK	1.7	-98.5	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	123.2	25	150	26	12767.86	57.45	2844.78	OK
9	PC2	240	0.75	37.35	400	800	1000	2800	1200	800	71.3	725	0.2	14.97	66.46	OK	1.7	-109.5	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	949.1	25	150	26	12767.86	57.45	2844.78	OK
10	PC2	256	0.75	37.35	400	800	1000	2800	1200	800	76.1	725	0.2	15.98	66.46	OK	1.7	-116.9	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	1013.5	25	150	26	12767.86	57.45	2844.78	OK
11	PC2	257	0.75	37.35	400	800	1000	2800	1200	800	76.4	725	0.2	16.04	66.46	OK	1.7	-117.3	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	1017.1	25	150	26	12767.86	57.45	2844.78	OK
12	PC2	280	0.75	37.35	400	800	1000	2800	1200	800	83.3	725	0.2	17.49	66.46	OK	1.7	-127.9	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	1110.3	25	150	26	12767.86	57.45	2844.78	OK
13	PC2	284	0.75	37.35	400	800	1000	2800	1200	800	84.5	725	0.2	17.73	66.46	OK	1.7	-129.7	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	1125.7	25	150	26	13016.68	58.57	2897.88	OK
14	PC2	303	0.75	37.35	400	800	1000	2800	1200	800	90.2	725	0.2	18.95	66.46	OK	1.7	-138.6	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	1203.5	25	150	26	13002.26	58.51	2894.81	OK
15	PC2	303	0.75	37.35	400	800	1000	2800	1200	800	90.3	725	0.2	18.96	66.46	OK	1.7	-138.6	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	1204.1	25	150	26	12987.84	58.44	2891.73	OK
16	PC2	304	0.75	37.35	400	800	1000	2800	1200	800	90.6	725	0.2	19.02	66.46	OK	1.7	-139.1	1783.4	1044.9	1019.1	1019.1	764.3	OK	0.9	2304	1207.8	25	150	26	12973.44	58.38	2888.66	OK
17	PCS	308	0.75	37.35	400	800	1000	3700	3350	1000	24.8	925	0.4	35.37	236.72	OK	1.9	186.8	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1158.5	25	150	26	12959.04	44.13	3744.38	OK
18	PCS	326	0.75	37.35	400	800	1000	3700	3350	1000	26.3	925	0.4	37.44	236.72	OK	1.9	197.7	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1230.6	25	150	26	12944.66	44.08	3740.32	OK
19	PCS	329	0.75	37.35	400	800	1000	3700	3350	1000	26.5	925	0.4	37.75	236.72	OK	1.9	199.3	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1241.3	25	150	26	12930.28	44.03	3736.27	OK
20	PCS	330	0.75	37.35	400	800	1000	3700	3350	1000	26.6	925	0.4	37.86	236.72	OK	1.9	199.9	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1245.1	25	150	26	12915.90	43.98	3732.22	OK
21	PCS	335	0.75	37.35	400	800	1000	3700	3350	1000	27.0	925	0.4	38.51	236.72	OK	1.9	203.3	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1267.6	25	150	26	12901.54	43.93	3728.17	OK
22	PCS	336	0.75	37.35	400	600	600	3700	3350	1000	27.1	925	0.6	56.80	236.72	OK	1.5	241.4	1724.2	1446.3	1149.5	862.1	OK	1.6	8040	912.3	25	150	26	12887.18	43.88	3724.12	OK	
23	PCS	341	0.75	37.35	400	800	1000	3700	3350	1000	27.5	925	0.4	39.12	236.72	OK	1.9	206.5	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1289.0	25	150	26	12872.83	43.84	3720.07	OK
24	PCS	341	0.75	37.35	400	800	1000	3700	3350	1000	27.5	925	0.4	39.16	236.72	OK	1.9	206.8	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1290.5	25	150	26	12858.49	43.79	3716.03	OK
25	PCS	368	0.75	37.35	400	800	1000	3700	3350	1000	29.7	925	0.4	42.31	236.72	OK	1.9	223.4	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1400.3	25	150	26	12844.16	43.74	3711.99	OK
26	PCS	385	0.75	37.35	400	800	1000	3700	3350	1000	31.1	925	0.4	44.24	236.72	OK	1.9	233.6	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1467.4	25	150	26	12829.84	43.69	3707.95	OK
27	PCS	400	0.75	37.35	400	800	1000	3700	3350	1000	32.3	925	0.4	45.95	236.72	OK	1.9	242.6	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1526.8	25	150	26	12815.52	43.64	3703.91	OK
28	PCS	401	0.75	37.35	400	800	1000	3700	3350	1000	32.4	925	0.4	46.11	236.72	OK	1.9	243.5	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1532.6	25	150	26	12801.21	43.59	3699.88	OK
29	PCS	407	0.75	37.35	400	800	1000	3700	3350	1000	32.8	925	0.4	46.75	236.72	OK	1.9	246.8	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1554.6	25	150	26	12786.91	43.54	3695.84	OK
30	PCS	427	0.75	37.35	400	800	1000	3700	3350	1000	34.4	925	0.4	49.03	236.72	OK	1.9	258.9	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1634.1	25	150	26	12772.62	43.49	3691.81	OK
31	PCS	441	0.75	37.35	400	800	1000	3700	3350	1000	35.6	925	0.4	50.70	236.72	OK	1.9	267.7	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1692.3	25	150	26	12758.34	43.45	3687.78	OK
32	PCS	444	0.75	37.35	400	800	1000	3700	3350	1000	35.8	925	0.4	50.96	236.72	OK	1.9	269.1	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1701.5	25	150	26	12744.06	43.40	3683.75	OK
33	PCS	455	0.75	37.35	400	800	1000	3700	3350	1000	36.7	925	0.4	52.30	236.72	OK	1.9	276.1	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1748.0	25	150	26	12729.79	43.35	3679.73	OK
34	PCS	465	0.75	37.35	400	800	1000	3700	3350	1000	37.5	925	0.4	53.37	236.72	OK	1.9	281.8	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1785.4	25	150	26	12715.53	43.30	3675.70	OK
35	PCS	480	0.75	37.35	400	800	1000	3700	3350	1000	38.7	925	0.4	55.12	236.72	OK	1.9	291.0	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	1846.0	25	150	26	12701.28	43.25	3671.68	OK
36	PCS	480	0.75	37.35	400	800	1000	3700	3350	1000	38.8	925	0.4	55.18	236.72	OK	1.9	291.3	2539.2	1597.0	1451.0													

50	PCS	606	0.75	37.35	400	800	1000	3700	3350	1000	48.9	925	0.4	69.57	236.72	OK	1.9	367.3	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	2349.5	25	150	26	12488.45	42.53	3611.61	OK
51	PCS	606	0.75	37.35	400	800	1000	3700	3350	1000	48.9	925	0.4	69.64	236.72	OK	1.9	367.7	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	2351.8	25	150	26	12474.33	42.48	3607.62	OK
52	PCS	611	0.75	37.35	400	800	1000	3700	3350	1000	49.3	925	0.4	70.13	236.72	OK	1.9	370.2	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	2368.8	25	150	26	12460.21	42.43	3603.63	OK
53	PCS	616	0.75	37.35	400	800	1000	3700	3350	1000	49.7	925	0.4	70.71	236.72	OK	1.9	373.3	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	2389.2	25	150	26	12446.10	42.38	3599.65	OK
54	PCS	640	0.75	37.35	400	800	1000	3700	3350	1000	51.6	925	0.4	73.49	236.72	OK	1.9	388.0	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	2485.9	25	150	26	12432.00	42.33	3595.66	OK
55	PCS	737	0.75	37.35	400	800	1000	3700	3350	1000	59.4	925	0.4	84.62	236.72	OK	1.9	446.8	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	2873.5	29	150	26	17180.43	58.50	4924.59	OK
56	PCS	774	0.75	37.35	400	800	1000	3700	3350	1000	62.4	925	0.4	88.86	236.72	OK	1.9	469.2	2539.2	1597.0	1451.0	1451.0	1088.2	OK	1.4	8040	3021.2	29	150	26	17180.43	58.50	4924.59	OK
57	PC9	70	0.75	37.35	400	800	1000	15050	1500	1000	3.1	925	6.1	28.50	106.00	OK	1.9	-4.5	2539.2	1597.0	1451.0	1451.0	1088.2	OK	7.0	3600	-607.1	29	150	26	17180.43	14.38	5045.87	OK
58	PC9	77	0.75	37.35	400	800	1000	15050	1500	1000	3.4	925	6.1	31.25	106.00	OK	1.9	-5.0	2539.2	1597.0	1451.0	1451.0	1088.2	OK	7.0	3600	-579.9	29	150	26	17180.43	14.38	5045.87	OK
59	PC11	88	0.75	37.35	400	800	1000	18550	1500	1000	3.2	925	7.9	37.12	106.00	OK	1.9	-4.6	2539.2	1597.0	1451.0	1451.0	1088.2	OK	8.8	3600	-1035.1	29	150	26	17180.43	11.67	5053.33	OK

TABEL CEK PENAMPANG TIE BEAM

No.	tipe Tie Beam	Δs	L	b	h	d	I	f'c	E	fy	As,min1	As,min2	ΔM	desain tulangan			a	Mn	ØMn	Cek
		n											D	As						
			mm	mm	mm ²	Nmm	mm	mm ²	mm	Nmm	Nmm	ØMn>ΔM								
1	TB1	10	8500	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	60864.06	7	16	1407.00	88.64	228317.58	182654.06	OK
2	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
3	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
4	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
5	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
6	TB1	10	5700	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	135347.14	7	16	1407.00	88.64	228317.58	182654.06	OK
7	TB1	10	8500	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	60864.06	7	16	1407.00	88.64	228317.58	182654.06	OK
8	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
9	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
10	TB1	10	5700	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	135347.14	7	16	1407.00	88.64	228317.58	182654.06	OK
11	TB1	10	8500	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	60864.06	7	16	1407.00	88.64	228317.58	182654.06	OK
12	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
13	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
14	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
15	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
16	TB1	10	5700	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	135347.14	7	16	1407.00	88.64	228317.58	182654.06	OK
17	TB1	10	8500	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	60864.06	7	16	1407.00	88.64	228317.58	182654.06	OK
18	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
19	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
20	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
21	TB1	10	5700	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	135347.14	7	16	1407.00	88.64	228317.58	182654.06	OK
22	TB1	10	6500	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	104081.15	7	16	1407.00	88.64	228317.58	182654.06	OK
23	TB1	10	5000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	175897.15	7	16	1407.00	88.64	228317.58	182654.06	OK
24	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
25	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
26	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
27	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK

28	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
29	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
30	TB1	10	6500	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	104081.15	7	16	1407.00	88.64	228317.58	182654.06	OK
31	TB1	10	5000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	175897.15	7	16	1407.00	88.64	228317.58	182654.06	OK
32	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
33	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
34	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
35	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
36	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
37	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
38	TB1	10	6500	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	104081.15	7	16	1407.00	88.64	228317.58	182654.06	OK
39	TB1	10	5000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	175897.15	7	16	1407.00	88.64	228317.58	182654.06	OK
40	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
41	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
42	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
43	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
44	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
45	TB1	10	7000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	89743.44	7	16	1407.00	88.64	228317.58	182654.06	OK
46	TB1	10	6500	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	104081.15	7	16	1407.00	88.64	228317.58	182654.06	OK
47	TB1	10	5000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	175897.15	7	16	1407.00	88.64	228317.58	182654.06	OK
48	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
49	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
50	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
51	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
52	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
53	TB1	10	8000	300	500	450	3.13E+09	24.9	23.45	400	467.81	525.00	68709.82	7	16	1407.00	88.64	228317.58	182654.06	OK
54	TB2	10	6500	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	29749.86	5	13	664.00	50.20	73013.96	58411.17	OK
55	TB2	10	5000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	50277.27	5	13	664.00	50.20	73013.96	58411.17	OK
56	TB2	10	8000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	19639.56	5	13	664.00	50.20	73013.96	58411.17	OK
57	TB2	10	8000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	19639.56	5	13	664.00	50.20	73013.96	58411.17	OK
58	TB2	10	8000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	19639.56	5	13	664.00	50.20	73013.96	58411.17	OK

59	TB2	10	8000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	19639.56	5	13	664.00	50.20	73013.96	58411.17	OK
60	TB2	10	8000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	19639.56	5	13	664.00	50.20	73013.96	58411.17	OK
61	TB2	10	7000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	25651.67	5	13	664.00	50.20	73013.96	58411.17	OK
62	TB2	10	6500	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	29749.86	5	13	664.00	50.20	73013.96	58411.17	OK
63	TB2	10	5000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	50277.27	5	13	664.00	50.20	73013.96	58411.17	OK
64	TB2	10	8000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	19639.56	5	13	664.00	50.20	73013.96	58411.17	OK
65	TB2	10	8000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	19639.56	5	13	664.00	50.20	73013.96	58411.17	OK
66	TB2	10	8000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	19639.56	5	13	664.00	50.20	73013.96	58411.17	OK
67	TB2	10	8000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	19639.56	5	13	664.00	50.20	73013.96	58411.17	OK
68	TB2	10	8000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	19639.56	5	13	664.00	50.20	73013.96	58411.17	OK
69	TB2	10	7000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	25651.67	5	13	664.00	50.20	73013.96	58411.17	OK
70	TB2	10	6500	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	29749.86	5	13	664.00	50.20	73013.96	58411.17	OK
71	TB2	10	5000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	50277.27	5	13	664.00	50.20	73013.96	58411.17	OK
72	TB2	10	8000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	19639.56	5	13	664.00	50.20	73013.96	58411.17	OK
73	TB2	10	8000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	19639.56	5	13	664.00	50.20	73013.96	58411.17	OK
74	TB2	10	8000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	19639.56	5	13	664.00	50.20	73013.96	58411.17	OK
75	TB2	10	7000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	25651.67	5	13	664.00	50.20	73013.96	58411.17	OK
76	TB2	10	7000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	25651.67	5	13	664.00	50.20	73013.96	58411.17	OK
77	TB2	10	7000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	25651.67	5	13	664.00	50.20	73013.96	58411.17	OK
78	TB2	10	7000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	25651.67	5	13	664.00	50.20	73013.96	58411.17	OK
79	TB2	10	7000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	25651.67	5	13	664.00	50.20	73013.96	58411.17	OK
80	TB2	10	8500	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	17396.98	5	13	664.00	50.20	73013.96	58411.17	OK
81	TB2	10	7000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	25651.67	5	13	664.00	50.20	73013.96	58411.17	OK
82	TB2	10	7000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	25651.67	5	13	664.00	50.20	73013.96	58411.17	OK
83	TB2	10	8500	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	17396.98	5	13	664.00	50.20	73013.96	58411.17	OK
84	TB2	10	7000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	25651.67	5	13	664.00	50.20	73013.96	58411.17	OK
85	TB2	10	7000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	25651.67	5	13	664.00	50.20	73013.96	58411.17	OK
86	TB2	10	7000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	25651.67	5	13	664.00	50.20	73013.96	58411.17	OK
87	TB2	10	7000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	25651.67	5	13	664.00	50.20	73013.96	58411.17	OK
88	TB2	10	5700	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	38686.72	5	13	664.00	50.20	73013.96	58411.17	OK
89	TB2	10	7000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	25651.67	5	13	664.00	50.20	73013.96	58411.17	OK

90	TB2	10	7000	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	25651.67	5	13	664.00	50.20	73013.96	58411.17	OK
91	TB2	10	5700	250	350	300	8.93E+08	24.9	23.45	400	272.89	306.25	38686.72	5	13	664.00	50.20	73013.96	58411.17	OK
92	TB3	10	8500	200	250	200	2.6E+08	24.9	23.45	400	155.94	175.00	5072.01	4	13	531.00	50.18	37151.18	29720.95	OK
93	TB3	10	7000	200	250	200	2.6E+08	24.9	23.45	400	155.94	175.00	7478.62	4	13	531.00	50.18	37151.18	29720.95	OK
94	TB3	10	7000	200	250	200	2.6E+08	24.9	23.45	400	155.94	175.00	7478.62	4	13	531.00	50.18	37151.18	29720.95	OK
95	TB3	10	7000	200	250	200	2.6E+08	24.9	23.45	400	155.94	175.00	7478.62	4	13	531.00	50.18	37151.18	29720.95	OK
96	TB3	10	7000	200	250	200	2.6E+08	24.9	23.45	400	155.94	175.00	7478.62	4	13	531.00	50.18	37151.18	29720.95	OK
97	TB3	10	5700	200	250	200	2.6E+08	24.9	23.45	400	155.94	175.00	11278.93	4	13	531.00	50.18	37151.18	29720.95	OK
98	TB3	10	8500	200	250	200	2.6E+08	24.9	23.45	400	155.94	175.00	5072.01	4	13	531.00	50.18	37151.18	29720.95	OK
99	TB3	10	7000	200	250	200	2.6E+08	24.9	23.45	400	155.94	175.00	7478.62	4	13	531.00	50.18	37151.18	29720.95	OK
100	TB3	10	7000	200	250	200	2.6E+08	24.9	23.45	400	155.94	175.00	7478.62	4	13	531.00	50.18	37151.18	29720.95	OK
101	TB3	10	7000	200	250	200	2.6E+08	24.9	23.45	400	155.94	175.00	7478.62	4	13	531.00	50.18	37151.18	29720.95	OK
102	TB3	10	7000	200	250	200	2.6E+08	24.9	23.45	400	155.94	175.00	7478.62	4	13	531.00	50.18	37151.18	29720.95	OK
103	TB3	10	5700	200	250	200	2.6E+08	24.9	23.45	400	155.94	175.00	11278.93	4	13	531.00	50.18	37151.18	29720.95	OK
104	TB3	10	8500	200	250	200	2.6E+08	24.9	23.45	400	155.94	175.00	5072.01	4	13	531.00	50.18	37151.18	29720.95	OK
105	TB3	10	7000	200	250	200	2.6E+08	24.9	23.45	400	155.94	175.00	7478.62	4	13	531.00	50.18	37151.18	29720.95	OK
106	TB3	10	7000	200	250	200	2.6E+08	24.9	23.45	400	155.94	175.00	7478.62	4	13	531.00	50.18	37151.18	29720.95	OK

TABEL CEK PENAMPANG TIE BEAM

b	h	d	f_c	f_y	V_u	ØV_c	1/2ØV_c	Cek
in	in	in	MPa	MPa	lb	lb	lb	
11.811	19.685	17.717	3610	34795	1043.34	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	859.22	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	859.22	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	859.22	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	859.22	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	699.65	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	1043.34	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	859.22	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	859.22	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	699.65	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	1043.34	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	859.22	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	859.22	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	859.22	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	699.65	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	1043.34	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	859.22	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	859.22	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	699.65	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	1043.34	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	859.22	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	859.22	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	797.85	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	613.73	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	981.97	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	981.97	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	981.97	21373.17	10686.58	Tidak Perlu
11.811	19.685	17.717	3610	34795	981.97	21373.17	10686.58	Tidak Perlu

[illegible]

[illegible]

9.843	13.780	11.811	3610	34795	693.99	11873.98	5936.99	Tidak Perlu
9.843	13.780	11.811	3610	34795	565.10	11873.98	5936.99	Tidak Perlu
7.874	9.843	7.874	3610	34795	722.31	6332.79	3166.39	Tidak Perlu
7.874	9.843	7.874	3610	34795	594.85	6332.79	3166.39	Tidak Perlu
7.874	9.843	7.874	3610	34795	594.85	6332.79	3166.39	Tidak Perlu
7.874	9.843	7.874	3610	34795	594.85	6332.79	3166.39	Tidak Perlu
7.874	9.843	7.874	3610	34795	594.85	6332.79	3166.39	Tidak Perlu
7.874	9.843	7.874	3610	34795	484.37	6332.79	3166.39	Tidak Perlu
7.874	9.843	7.874	3610	34795	722.31	6332.79	3166.39	Tidak Perlu
7.874	9.843	7.874	3610	34795	594.85	6332.79	3166.39	Tidak Perlu
7.874	9.843	7.874	3610	34795	594.85	6332.79	3166.39	Tidak Perlu
7.874	9.843	7.874	3610	34795	594.85	6332.79	3166.39	Tidak Perlu
7.874	9.843	7.874	3610	34795	594.85	6332.79	3166.39	Tidak Perlu
7.874	9.843	7.874	3610	34795	484.37	6332.79	3166.39	Tidak Perlu
7.874	9.843	7.874	3610	34795	722.31	6332.79	3166.39	Tidak Perlu
7.874	9.843	7.874	3610	34795	594.85	6332.79	3166.39	Tidak Perlu
7.874	9.843	7.874	3610	34795	594.85	6332.79	3166.39	Tidak Perlu

TABEL CEK PONDASI TIANG PANCANG													
No.	tipe PONDASI	P=F3	Ø	Depth	q _c	T _f	Pall	Pa (DD ijin tarik)	Jumlah tiang (n)		Efisiensi (η)	P _{ult}	CEK
		ton	cm	m	kg/cm ²	kg/cm	ton	ton			ton	P _{ult} >P	
1	TP	7.342883	70	10	80	1310	160.3067	400.6976	0.0458	2	1	320.6133	AMAN
2	TP	7.405425	70	10	80	1310	160.3067	400.6976	0.0462	2	1	320.6133	AMAN
3	TP	8.175458	70	10	80	1310	160.3067	400.6976	0.051	2	1	320.6133	AMAN
4	TP	125.5521	70	10	80	1310	160.3067	400.6976	0.7832	2	1	320.6133	AMAN
5	TP	126.9542	70	10	80	1310	160.3067	400.6976	0.7919	2	1	320.6133	AMAN
6	TP	141.9006	70	10	80	1310	160.3067	400.6976	0.8852	2	1	320.6133	AMAN
7	TP	174.6737	70	10	80	1310	160.3067	400.6976	1.0896	2	1	320.6133	AMAN
8	TP	180.07	70	10	80	1310	160.3067	400.6976	1.1233	2	1	320.6133	AMAN
9	TP	191.822	70	10	80	1310	160.3067	400.6976	1.1966	2	1	320.6133	AMAN
10	TP	193.474	70	10	80	1310	160.3067	400.6976	1.2069	2	1	320.6133	AMAN
11	TP	212.169	70	10	80	1310	160.3067	400.6976	1.3235	2	1	320.6133	AMAN
12	TP	215.54	70	10	80	1310	160.3067	400.6976	1.3445	2	1	320.6133	AMAN
13	TP	215.6063	70	10	80	1310	160.3067	400.6976	1.345	2	1	320.6133	AMAN
14	TP	239.5997	70	10	80	1310	160.3067	400.6976	1.4946	2	1	320.6133	AMAN
15	TP	255.7067	70	10	80	1310	160.3067	400.6976	1.5951	2	1	320.6133	AMAN
16	TP	256.6049	70	10	80	1310	160.3067	400.6976	1.6007	2	1	320.6133	AMAN
17	TP	279.9017	70	10	80	1310	160.3067	400.6976	1.746	2	1	320.6133	AMAN
18	TP	283.7549	70	10	80	1310	160.3067	400.6976	1.7701	2	1	320.6133	AMAN
19	TP	303.2162	70	10	80	1310	160.3067	400.6976	1.8915	2	1	320.6133	AMAN
20	TP	303.3516	70	10	80	1310	160.3067	400.6976	1.8923	2	1	320.6133	AMAN
21	TP	304.2706	70	10	80	1310	160.3067	400.6976	1.8981	2	1	320.6133	AMAN
22	TP	307.9518	70	10	80	1310	160.3067	400.6976	1.921	2	1	320.6133	AMAN
23	TP	325.9682	70	10	80	1310	160.3067	400.6976	2.0334	5	1	801.5333	AMAN
24	TP	328.6498	70	10	80	1310	160.3067	400.6976	2.0501	5	1	801.5333	AMAN
25	TP	329.59	70	10	80	1310	160.3067	400.6976	2.056	5	1	801.5333	AMAN
26	TP	335.2279	70	10	80	1310	160.3067	400.6976	2.0912	5	1	801.5333	AMAN
27	TP	336.2833	70	10	80	1310	160.3067	400.6976	2.0977	5	1	801.5333	AMAN
28	TP	340.5642	70	10	80	1310	160.3067	400.6976	2.1245	5	1	801.5333	AMAN
29	TP	340.9292	70	10	80	1310	160.3067	400.6976	2.1267	5	1	801.5333	AMAN
30	TP	368.3881	70	10	80	1310	160.3067	400.6976	2.298	5	1	801.5333	AMAN
31	TP	385.1625	70	10	80	1310	160.3067	400.6976	2.4027	5	1	801.5333	AMAN
32	TP	400.0217	70	10	80	1310	160.3067	400.6976	2.4954	5	1	801.5333	AMAN
33	TP	401.4716	70	10	80	1310	160.3067	400.6976	2.5044	5	1	801.5333	AMAN
34	TP	406.9658	70	10	80	1310	160.3067	400.6976	2.5387	5	1	801.5333	AMAN
35	TP	426.8358	70	10	80	1310	160.3067	400.6976	2.6626	5	1	801.5333	AMAN
36	TP	441.4031	70	10	80	1310	160.3067	400.6976	2.7535	5	1	801.5333	AMAN
37	TP	443.685	70	10	80	1310	160.3067	400.6976	2.7677	5	1	801.5333	AMAN
38	TP	455.3265	70	10	80	1310	160.3067	400.6976	2.8403	5	1	801.5333	AMAN
39	TP	464.673	70	10	80	1310	160.3067	400.6976	2.8987	5	1	801.5333	AMAN
40	TP	479.8263	70	10	80	1310	160.3067	400.6976	2.9932	5	1	801.5333	AMAN
41	TP	480.3557	70	10	80	1310	160.3067	400.6976	2.9965	5	1	801.5333	AMAN
42	TP	480.4461	70	10	80	1310	160.3067	400.6976	2.997	5	1	801.5333	AMAN
43	TP	486.2702	70	10	80	1310	160.3067	400.6976	3.0334	5	1	801.5333	AMAN
44	TP	500.7673	70	10	80	1310	160.3067	400.6976	3.1238	5	1	801.5333	AMAN
45	TP	525.6543	70	10	80	1310	160.3067	400.6976	3.2791	5	1	801.5333	AMAN
46	TP	552.6472	70	10	80	1310	160.3067	400.6976	3.4474	5	1	801.5333	AMAN
47	TP	553.2882	70	10	80	1310	160.3067	400.6976	3.4514	5	1	801.5333	AMAN
48	TP	555.7177	70	10	80	1310	160.3067	400.6976	3.4666	5	1	801.5333	AMAN
49	TP	563.2549	70	10	80	1310	160.3067	400.6976	3.5136	5	1	801.5333	AMAN
50	TP	564.5396	70	10	80	1310	160.3067	400.6976	3.5216	5	1	801.5333	AMAN

51	TP	565.4692	70	10	80	1310	160.3067	400.6976	3.5274	5	1	801.5333	AMAN
52	TP	585.2901	70	10	80	1310	160.3067	400.6976	3.6511	5	1	801.5333	AMAN
53	TP	590.6195	70	10	80	1310	160.3067	400.6976	3.6843	5	1	801.5333	AMAN
54	TP	597.6142	70	10	80	1310	160.3067	400.6976	3.7279	5	1	801.5333	AMAN
55	TP	605.6917	70	10	80	1310	160.3067	400.6976	3.7783	5	1	801.5333	AMAN
56	TP	606.2713	70	10	80	1310	160.3067	400.6976	3.7819	5	1	801.5333	AMAN
57	TP	610.521	70	10	80	1310	160.3067	400.6976	3.8085	5	1	801.5333	AMAN
58	TP	615.6222	70	10	80	1310	160.3067	400.6976	3.8403	5	1	801.5333	AMAN
59	TP	639.7989	70	10	80	1310	160.3067	400.6976	3.9911	5	1	801.5333	AMAN
60	TP	736.6796	70	10	80	1310	160.3067	400.6976	4.5954	5	1	801.5333	AMAN
61	TP	773.6111	70	10	80	1310	160.3067	400.6976	4.8258	5	1	801.5333	AMAN

Tabel Perhitungan Penampang Kolom Lt.1							Tabel Perhitungan Tulangan Lentur Kolom Lt.1															Tabel perhitungan tulangan geser kolom Lt.1																					
No	section	b	h	f _c '	P _u	A _s	cek penampang	No.	section	b	h	y _k	P _u	M _u	M _n	e	e/h	(δP _u e)/ A _s h	γ	ρ	A _s	desain n	D (mm)	A _{s, desain}	Cek	No.	section	b	h	f _c '	f _y	V _u	N _u	1/2δV _u	ØV _u	cek	V _s	Ø skg (mm)	A _s (in ²)	n	s (in)		
		(in.)	(in.)	(psi)	(kip)	(cm ²)				(in.)	(in.)	(in.)	(kip)	(kip)	(ft-k)	(ft-k)	(in.)											(in.)	(in.)	(in.)	(psi)	(psi)	(lb)	(lb)	(lb)	(lb)							
1	K3	23.62	23.62	4206.00	870.36	2225.08	OK	1	K3	23.62	23.62	18.62	870.36	1243.37	23.03	32.90	0.32	0.01	0.02	0.79	0.01	5.58	8	25	39.29	OK	1	K3	23.62	23.62	4206.00	56564.70	2590.38	870360.00	45083.63	90167.25	tdk perlu						
2	K2	29.53	29.53	4206.00	1215.50	3107.43	OK	2	K2	29.53	29.53	24.53	1215.50	1736.43	38.19	38.18	0.26	0.01	0.01	0.83	0.01	8.72	12	25	58.93	OK	2	K2	29.53	29.53	4206.00	56564.70	4256.88	1215500.00	67178.01	134356.03	tdk perlu						
3	k2	29.53	29.53	4206.00	1094.36	2797.74	OK	3	k2	29.53	29.53	24.53	1094.36	1563.37	273.57	34.16	0.26	0.01	0.01	0.83	0.01	8.72	12	25	58.93	OK	3	k2	29.53	29.53	4206.00	56564.70	3808.26	1094360.00	64428.28	128856.56	tdk perlu						
4	k2	29.53	29.53	4206.00	1208.63	3089.87	OK	4	k2	29.53	29.53	24.53	1208.63	1726.61	254.39	36.08	0.25	0.01	0.01	0.83	0.01	8.72	12	25	58.93	OK	4	k2	29.53	29.53	4206.00	56564.70	4021.68	1208630.00	67022.07	134044.15	tdk perlu						
5	k1	39.37	32.00	4206.00	607.90	1554.10	OK	5	k1	39.37	32.00	34.37	607.90	868.43	30.63	16.87	0.23	0.01	0.00	1.07	0.01	12.60	18	25	88.39	OK	5	k1	39.37	32.00	4206.00	56564.70	1944.86	607900.00	70992.38	141984.59	tdk perlu						
6	k1	39.37	32.00	4206.00	379.27	969.61	OK	6	k1	39.37	32.00	34.37	379.27	541.81	189.77	29.01	0.64	0.02	0.01	1.07	0.01	12.60	18	25	88.39	OK	6	k1	39.37	32.00	4206.00	56564.70	3172.06	379270.00	65802.65	131605.31	tdk perlu						
7	k1	39.37	32.00	4206.00	662.32	1693.23	OK	7	k1	39.37	32.00	34.37	662.32	946.17	183.64	0.72	0.01	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	7	k1	39.37	32.00	4206.00	56564.70	78.67	662320.00	72227.55	144455.09	tdk perlu						
8	k1	39.37	32.00	4206.00	740.58	1893.30	OK	8	k1	39.37	32.00	34.37	740.58	1057.97	235.80	69.25	0.79	0.02	0.01	1.07	0.01	12.60	18	25	88.39	OK	8	k1	39.37	32.00	4206.00	56564.70	7574.42	740580.00	74003.95	148007.90	tdk perlu						
9	k1	39.37	32.00	4206.00	1315.69	3363.57	OK	9	k1	39.37	32.00	34.37	1315.69	1879.56	222.39	14.16	0.09	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	9	k1	39.37	32.00	4206.00	56564.70	1548.95	1315690.00	87058.25	174116.51	tdk perlu						
10	k1	39.37	32.00	4206.00	660.29	1688.04	OK	10	k1	39.37	32.00	34.37	660.29	943.27	70.20	0.07	0.00	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	10	k1	39.37	32.00	4206.00	56564.70	7.56	660290.00	72181.47	144362.93	tdk perlu						
11	k1	39.37	32.00	4206.00	742.19	1897.41	OK	11	k1	39.37	32.00	34.37	742.19	1060.27	165.28	1.46	0.02	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	11	k1	39.37	32.00	4206.00	56564.70	159.82	742190.00	74040.50	148080.99	tdk perlu						
12	k1	39.37	32.00	4206.00	994.09	2541.40	OK	12	k1	39.37	32.00	34.37	994.09	1420.13	177.98	47.43	0.40	0.01	0.01	1.07	0.01	12.60	18	25	88.39	OK	12	k1	39.37	32.00	4206.00	56564.70	5187.92	994090.00	79758.32	159516.64	tdk perlu						
13	k1	39.37	32.00	4206.00	1210.87	3095.60	OK	13	k1	39.37	32.00	34.37	1210.87	1729.81	176.83	9.32	0.06	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	13	k1	39.37	32.00	4206.00	56564.70	1019.04	1210870.00	84678.97	169357.93	tdk perlu						
14	k1	39.37	32.00	4206.00	1235.09	3157.52	OK	14	k1	39.37	32.00	34.37	1235.09	1764.41	26.32	2.55	0.02	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	14	k1	39.37	32.00	4206.00	56564.70	278.65	1235090.00	85228.73	170457.46	tdk perlu						
15	k1	39.37	32.00	4206.00	1239.97	3170.00	OK	15	k1	39.37	32.00	34.37	1239.97	1771.39	41.62	1.25	0.01	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	15	k1	39.37	32.00	4206.00	56564.70	136.89	1239972.00	85339.55	170679.09	tdk perlu						

Tabel Perhitungan Penampang Kolom Lt.2							Tabel Perhitungan Tulangan Lentur Kolom Lt.2														Tabel perhitungan tulangan geser kolom																						
No	section	b	h	f _c '	P _u	A _g	cek	penampang	No.	section	b	h	y _b	P _u	P _n	M _u	M _n	e	e/h	(δP _u -e)/ A _g ·h	Y	ρ	A _s	desain n D	A _s min	Cek	No.	section	b	h	f _c	f _y	V _u	N _u	1/2δV _u	ØV _c	cek	V _s	Ø s _{kg} (mm)	A _v (in ²)	n	s (in)	
		(in.)	(in.)	(psi)	(kip)	(cm ²)				(in.)	(in.)	(in.)	(kip)	(kip)	(ft-k)	(ft-k)	(in.)							(mm)	(cm ²)				(in.)	(in.)	(in.)	(psi)	(psi)	(lb)	(lb)	(lb)	(lb)						
16	K3	23.62	23.62	4206.00	722.56	1847.24	OK	16	K3	23.62	23.62	18.62	722.56	1032.23	38.61	55.16	0.64	0.03	0.04	0.79	0.01	5.58	8	25	39.29	OK	16	K3	23.62	23.62	4206.00	56564.70	6701.77	722563.00	41728.81	83457.63	tdk perlu						
17	K2	29.53	29.53	4206.00	1031.27	2636.45	OK	17	K2	29.53	29.53	24.53	1031.27	1473.24	61.39	87.70	0.71	0.02	0.03	0.83	0.01	8.72	12	25	58.93	OK	17	K2	29.53	29.53	4206.00	56564.70	10617.76	1031270.00	62996.22	125992.43	tdk perlu						
18	K2	29.53	29.53	4206.00	935.87	2392.56	OK	18	K2	29.53	29.53	24.53	935.87	1336.96	55.09	78.70	0.71	0.02	0.03	0.83	0.01	8.72	12	25	58.93	OK	18	K2	29.53	29.53	4206.00	56564.70	9547.67	935870.00	60830.75	121661.50	tdk perlu						
19	K2	29.53	29.53	4206.00	1039.41	2657.26	OK	19	K2	29.53	29.53	24.53	1039.41	1484.87	56.88	81.26	0.66	0.02	0.03	0.83	0.01	8.72	12	25	58.93	OK	19	K2	29.53	29.53	4206.00	56564.70	9991.63	1039410.00	63180.98	126361.97	tdk perlu						
20	K1	39.37	32.00	4206.00	635.29	1624.12	OK	20	K1	39.37	32.00	34.37	635.29	907.56	1.27	1.81	0.02	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	20	K1	39.37	32.00	4206.00	56564.70	94.90	635290.00	71614.00	143327.99	tdk perlu						
21	K1	39.37	32.00	4206.00	870.33	2225.00	OK	21	K1	39.37	32.00	34.37	870.33	1243.33	69.72	99.60	0.96	0.03	0.02	1.07	0.01	12.60	18	25	88.39	OK	21	K1	39.37	32.00	4206.00	56564.70	11577.88	870330.00	76949.12	153898.24	tdk perlu						
22	K1	39.37	32.00	4206.00	1035.93	2648.36	OK	22	K1	39.37	32.00	34.37	1035.93	1479.90	13.26	18.94	0.15	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	22	K1	39.37	32.00	4206.00	56564.70	2145.35	1035930.00	80708.04	161416.08	tdk perlu						
23	K1	39.37	32.00	4206.00	1057.23	2702.82	OK	23	K1	39.37	32.00	34.37	1057.23	1510.33	3.82	5.46	0.04	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	23	K1	39.37	32.00	4206.00	56564.70	644.00	1057230.00	81191.52	162383.05	tdk perlu						
24	K1	39.37	32.00	4206.00	1060.55	2711.30	OK	24	K1	39.37	32.00	34.37	1060.55	1515.07	1.44	2.06	0.02	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	24	K1	39.37	32.00	4206.00	56564.70	186.57	1060550.00	81266.88	162533.77	tdk perlu						
25	K1	39.37	32.00	4206.00	899.45	2299.45	OK	25	K1	39.37	32.00	34.37	899.45	1284.93	6.30	9.00	0.08	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	25	K1	39.37	32.00	4206.00	56564.70	983.35	899450.00	77610.11	155220.22	tdk perlu						
26	K1	39.37	32.00	4206.00	825.28	2109.83	OK	26	K1	39.37	32.00	34.37	825.28	1178.97	1.71	2.44	0.02	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	26	K1	39.37	32.00	4206.00	56564.70	246.72	825280.00	75926.54	151853.08	tdk perlu						
27	K1	39.37	32.00	4206.00	565.64	1446.06	OK	27	K1	39.37	32.00	34.37	565.64	808.06	0.13	0.19	0.00	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	27	K1	39.37	32.00	4206.00	56564.70	21.37	565640.00	70033.03	140066.05	tdk perlu						
28	K1	39.37	32.00	4206.00	325.95	833.29	OK	28	K1	39.37	32.00	34.37	325.95	465.64	43.66	62.37	1.61	0.05	0.01	1.07	0.01	12.60	18	25	88.39	OK	28	K1	39.37	32.00	4206.00	56564.70	7385.23	325950.00	64592.35	129184.73	tdk perlu						
29	K1	39.37	32.00	4206.00	523.79	1339.07	OK	29	K1	39.37	32.00	34.37	523.79	748.27	26.17	37.39	0.60	0.02	0.01	1.07	0.01	12.60	18	25	88.39	OK	29	K1	39.37	32.00	4206.00	56564.70	4525.94	523790.00	69083.08	138166.16	tdk perlu						
30	K1	39.37	32.00	4206.00	568.01	1452.12	OK	30	K1	39.37	32.00	34.37	568.01	811.44	0.95	1.36	0.02	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	30	K1	39.37	32.00	4206.00	56564.70	143.76	568010.00	70086.82	140173.64	tdk perlu						

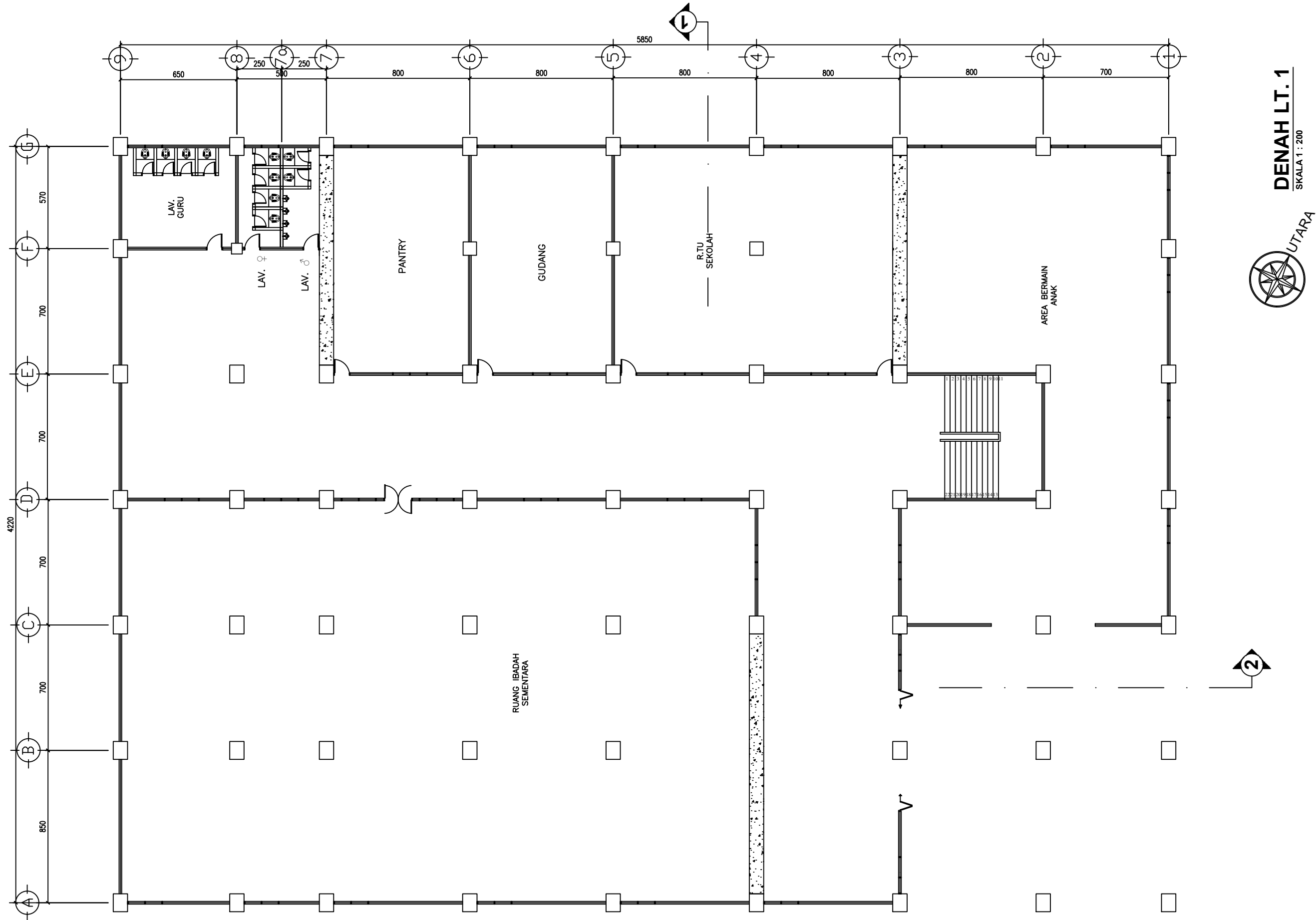
Tabel Perhitungan Penampang Kolom Lt.3							Tabel Perhitungan Tulangan Lentur Kolom Lt.3														Tabel perhitungan tulangan geser kolom Lt.3																							
No	section	b	h	f _c '	P _u	A _g	cek penampang	No.	section	b	h	γ _s	P _u	P _n	M _u	M _n	e	e/h	(ØP _u e)/ A _g h	Y	ρ	A _s	desain n D (mm)	A _s desain (cm. ²)	Cek	No.	section	b	h	f _c '	f _s	V _u	N _u	1/2ØV _u (lb)	ØV _u (lb)	cek	V _t	Ø skg (mm)	A _v (in ²)	n	s			
		(in.)	(in.)	(psi)	(kip)	(cm. ²)				(in.)	(in.)	(in.)	(kip)	(kip)	(ft-k)	(ft-k)	(in.)													(in.)	(in.)	(psi)	(psi)	(lb)	(lb)									
31	K3	23.62	23.62	4206.00	588.22	1503.79	OK	31	K3	23.62	23.62	18.62	588.22	840.31	42.21	60.30	0.86	0.04	0.04	0.79	0.01	5.6	8	25	39.29	OK	31	K3	23.62	23.62	4206.00	56564.70	7194.37	588220.00	38679.39	77358.78	tdk perlu							
32	K2	29.53	29.53	4206.00	854.69	2185.02	OK	32	K2	29.53	29.53	24.53	854.69	1220.99	65.37	93.39	0.92	0.03	0.03	0.83	0.01	8.7	12	25	58.93	OK	32	K2	29.53	29.53	4206.00	56564.70	11120.50	854690.00	58988.06	117976.13	tdk perlu							
33	K2	29.53	29.53	4206.00	781.72	1998.47	OK	33	K2	29.53	29.53	24.53	781.72	1116.74	61.99	87.99	0.95	0.03	0.03	0.83	0.01	8.7	12	25	58.93	OK	33	K2	29.53	29.53	4206.00	56564.70	10369.98	781720.00	57331.73	114663.47	tdk perlu							
34	K2	29.53	29.53	4206.00	877.55	2243.46	OK	34	K2	29.53	29.53	24.53	877.55	1253.64	65.99	94.19	0.90	0.03	0.03	0.83	0.01	8.7	12	25	58.93	OK	34	K2	29.53	29.53	4206.00	56564.70	11011.83	877550.00	59506.96	119013.92	tdk perlu							
35	K1	39.37	32.00	4206.00	530.55	1356.35	OK	35	K1	39.37	32.00	34.37	530.55	757.93	1.74	2.49	0.04	0.00	0.00	1.07	0.01	13	18	25	88.39	OK	35	K1	39.37	32.00	4206.00	56564.70	275.00	530550.00	69236.53	138473.05	tdk perlu							
36	K1	39.37	32.00	4206.00	722.36	1846.72	OK	36	K1	39.37	32.00	34.37	722.36	1091.94	67.93	97.04	1.13	0.04	0.02	1.07	0.01	13	18	25	88.39	OK	36	K1	39.37	32.00	4206.00	56564.70	11357.36	722360.00	73590.38	147180.76	tdk perlu							
37	K1	39.37	32.00	4206.00	862.96	2206.16	OK	37	K1	39.37	32.00	34.37	862.96	1232.80	11.38	16.26	0.16	0.00	0.00	1.07	0.01	13	18	25	88.39	OK	37	K1	39.37	32.00	4206.00	56564.70	1913.91	862960.00	76781.83	153563.66	tdk perlu							
38	K1	39.37	32.00	4206.00	881.58	2253.77	OK	38	K1	39.37	32.00	34.37	881.58	1259.40	3.72	5.31	0.05	0.00	0.00	1.07	0.01	13	18	25	88.39	OK	38	K1	39.37	32.00	4206.00	56564.70	631.88	881580.00	77204.48	154408.96	tdk perlu							
39	K1	39.37	32.00	4206.00	883.94	2259.80	OK	39	K1	39.37	32.00	34.37	883.94	1262.77	0.19	0.27	0.00	0.00	0.00	1.07	0.01	13	18	25	88.39	OK	39	K1	39.37	32.00	4206.00	56564.70	14.83	883940.00	77258.05	154516.10	tdk perlu							
40	K1	39.37	32.00	4206.00	749.64	1916.46	OK	40	K1	39.37	32.00	34.37	749.64	1070.91	4.37	6.24	0.07	0.00	0.00	1.07	0.01	13	18	25	88.39	OK	40	K1	39.37	32.00	4206.00	56564.70	742.90	749640.00	74209.60	148419.21	tdk perlu							
41	K1	39.37	32.00	4206.00	687.50	1757.60	OK	41	K1	39.37	32.00	34.37	687.50	982.14	0.67	0.96	0.01	0.00	0.00	1.07	0.01	13	18	25	88.39	OK	41	K1	39.37	32.00	4206.00	56564.70	109.70	687500.00	72799.10	145598.20	tdk perlu							
42	K1	39.37	32.00	4206.00	565.64	1446.06	OK	42	K1	39.37	32.00	34.37	565.64	808.06	0.13	0.19	0.00	0.00	0.00	1.07	0.01	13	18	25	88.39	OK	42	K1	39.37	32.00	4206.00	56564.70	21.36	565640.00	70033.03	140066.05	tdk perlu							
43	K1	39.37	32.00	4206.00	273.69	699.69	OK	43	K1	39.37	32.00	34.37	273.69	390.99	63.16	61.66	1.89	0.06	0.01	1.07	0.01	13	18	25	88.39	OK	43	K1	39.37	32.00	4206.00	56564.70	7323.79	273690.00	63406.11	126812.23	tdk perlu							
44	K1	39.37	32.00	4206.00	439.19	1122.79	OK	44	K1	39.37	32.00	34.37	439.19	627.41	28.57	40.81	0.78	0.02	0.01	1.07	0.01	13	18	25	88.39	OK	44	K1	39.37	32.00	4206.00	56564.70	4822.00	439190.00	67162.76	134325.53	tdk perlu							
45	K1	39.37	32.00	4206.00	475.09	1214.57	OK	45	K1	39.37	32.00	34.37	475.09	678.70	0.48	0.69	0.01	0.00	0.00	1.07	0.01	13	18	25	88.39	OK	45	K1	39.37	32.00	4206.00	56564.70	76.74	475090.00	67977.65	135955.30	tdk perlu							

Tabel Perhitungan Penampang Kolom Lt.4							Tabel Perhitungan Tulangan Lentur Kolom Lt.4													Tabel perhitungan tulangan geser kolom Lt.4																						
No	section	b	h	f _c '	P _u	A _g	cek penampang	No.	section	b	h	γ _x	P _u	P _n	M _u	M _n	e	e/h	(ØP _u .e)/ A _g .h	Y	ρ	A _s	desain n	D	A _s desain	Cek	No.	section	b	h	f _c '	f _y	V _u	N _u	1/2ØV _u	ØV _u	cek	V _s	Ø s _g	A _v	n	s
		(in.)	(in.)	(psi)	(kip)	(cm. ²)				(in.)	(in.)	(in.)	(kip)	(kip)	(ft-k)	(ft-k)	(in.)							(mm)	(cm. ²)				(in.)	(in.)	(psi)	(psi)	(lb)	(lb)	(lb)	(lb)			(mm)	(in ²)		(in)
46	K3	23.62	23.62	4206.00	462.47	1182.31	OK	46	K3	23.62	23.62	18.62	462.47	660.67	46.41	66.30	1.20	0.05	0.04	0.79	0.01	5.58	8	25	39.29	OK	46	K3	23.62	23.62	4206.00	56564.70	7961.63	462470.00	35825.02	71650.03	tdk perlu					
47	K2	29.53	29.53	4206.00	682.45	1744.69	OK	47	K2	29.53	29.53	24.53	682.45	974.93	73.59	105.13	1.29	0.04	0.03	0.83	0.01	8.72	12	25	58.93	OK	47	K2	29.53	29.53	4206.00	56564.70	12543.40	682450.00	55078.42	110156.85	tdk perlu					
48	K2	29.53	29.53	4206.00	621.52	1588.92	OK	48	K2	29.53	29.53	24.53	621.52	887.89	69.63	99.47	1.34	0.05	0.03	0.83	0.01	8.72	12	25	58.93	OK	48	K2	29.53	29.53	4206.00	56564.70	11905.81	621520.00	53695.39	107390.77	tdk perlu					
49	K2	29.53	29.53	4206.00	700.11	1789.84	OK	49	K2	29.53	29.53	24.53	700.11	1000.16	76.84	109.77	1.32	0.04	0.04	0.83	0.01	8.72	12	25	58.93	OK	49	K2	29.53	29.53	4206.00	56564.70	13074.62	700110.00	55479.28	110958.57	tdk perlu					
50	K1	39.37	32.00	4206.00	420.28	1074.45	OK	50	K1	39.37	32.00	34.37	420.28	600.40	2.78	3.97	0.08	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	50	K1	39.37	32.00	4206.00	56564.70	443.36	420280.00	66733.53	133467.06	tdk perlu					
51	K1	39.37	32.00	4206.00	596.13	1524.01	OK	51	K1	39.37	32.00	34.37	596.13	851.61	72.97	104.24	1.47	0.05	0.02	1.07	0.01	12.60	18	25	88.39	OK	51	K1	39.37	32.00	4206.00	56564.70	12649.32	596130.00	70725.11	141450.22	tdk perlu					
52	K1	39.37	32.00	4206.00	690.47	1765.19	OK	52	K1	39.37	32.00	34.37	690.47	986.39	11.78	16.83	0.20	0.01	0.00	1.07	0.01	12.60	18	25	88.39	OK	52	K1	39.37	32.00	4206.00	56564.70	2031.32	690470.00	72866.52	145733.03	tdk perlu					
53	K1	39.37	32.00	4206.00	705.88	1804.59	OK	53	K1	39.37	32.00	34.37	705.88	1008.40	3.86	5.51	0.07	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	53	K1	39.37	32.00	4206.00	56564.70	671.14	705880.00	73216.30	146432.61	tdk perlu					
54	K1	39.37	32.00	4206.00	707.45	1808.60	OK	54	K1	39.37	32.00	34.37	707.45	1010.64	0.48	0.69	0.01	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	54	K1	39.37	32.00	4206.00	56564.70	77.08	707450.00	73251.94	146503.88	tdk perlu					
55	K1	39.37	32.00	4206.00	599.88	1533.60	OK	55	K1	39.37	32.00	34.37	599.88	856.97	4.75	6.79	0.10	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	55	K1	39.37	32.00	4206.00	56564.70	814.63	599880.00	70810.23	141620.47	tdk perlu					
56	K1	39.37	32.00	4206.00	550.04	1406.18	OK	56	K1	39.37	32.00	34.37	550.04	785.77	0.46	0.66	0.01	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	56	K1	39.37	32.00	4206.00	56564.70	68.29	550040.00	69678.93	139357.85	tdk perlu					
57	K1	39.37	32.00	4206.00	379.08	969.12	OK	57	K1	39.37	32.00	34.37	379.08	541.54	0.18	0.26	0.01	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	57	K1	39.37	32.00	4206.00	56564.70	27.78	379080.00	65798.34	131596.68	tdk perlu					
58	K1	39.37	32.00	4206.00	220.37	563.38	OK	58	K1	39.37	32.00	34.37	220.37	314.81	45.88	65.54	2.50	0.08	0.01	1.07	0.01	12.60	18	25	88.39	OK	58	K1	39.37	32.00	4206.00	56564.70	7932.39	220370.00	62195.82	124391.63	tdk perlu					
59	K1	39.37	32.00	4206.00	352.98	902.40	OK	59	K1	39.37	32.00	34.37	352.98	504.26	31.39	44.84	1.07	0.03	0.01	1.07	0.01	12.60	18	25	88.39	OK	59	K1	39.37	32.00	4206.00	56564.70	5389.37	352980.00	65205.90	130411.80	tdk perlu					
60	K1	39.37	32.00	4206.00	381.30	974.80	OK	60	K1	39.37	32.00	34.37	381.30	544.71	0.43	0.61	0.01	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	60	K1	39.37	32.00	4206.00	56564.70	71.33	381300.00	65848.73	131697.46	tdk perlu					

Tabel Perhitungan Penampang Kolom Lt.5							Tabel Perhitungan Tulangan Lentur Kolom Lt.5															Tabel perhitungan tulangan geser kolom Lt.5																				
No	section	b	h	f _c '	P _u	A _g	cek	No.	section	b	h	γ _s	P _u	P _n	M _u	M _n	e	e/h	(δP _u e)/ A _g h	γ	ρ	A _s	desain n D	A _{s,desain}	Cek	No.	section	b	h	f _c '	f _y	V _u	N _u	1/20V _u	ØV _u	cek	V _s	Ø s _g	A _v	n	s	
		(in.)	(in.)	(psi)	(kip)	(cm. ²)				(in.)	(in.)	(in.)	(kip)	(kip)	(ft-k)	(ft-k)	(in.)						(mm)	(cm. ²)				(in.)	(in.)	(psi)	(psi)	(lb)	(lb)	(lb)	(lb)			(mm)	(in ²)		(in)	
61	K3	23.62	23.62	4206.00	341.59	873.28	OK	61	K3	23.62	23.62	18.62	341.59	487.99	49.34	70.49	1.73	0.07	0.04	0.79	0.01	5.58	8	25	39.29	OK	61	K3	23.62	23.62	4206.00	56564.70	8514.49	341590.00	33081.19	66162.37	tdk perlu					
62	K2	29.53	29.53	4206.00	502.81	1285.44	OK	62	K2	29.53	29.53	24.53	502.81	718.30	79.81	114.01	1.90	0.06	0.04	0.83	0.01	8.72	12	25	58.93	OK	62	K2	29.53	29.53	4206.00	56564.70	13726.58	502810.00	51000.81	102001.63	tdk perlu					
63	K2	29.53	29.53	4206.00	457.99	1170.85	OK	63	K2	29.53	29.53	24.53	457.99	654.27	73.33	104.76	1.92	0.07	0.03	0.83	0.01	8.72	12	25	58.93	OK	63	K2	29.53	29.53	4206.00	56564.70	12695.59	457990.00	49983.45	99966.91	tdk perlu					
64	K2	29.53	29.53	4206.00	512.84	1311.08	OK	64	K2	29.53	29.53	24.53	512.84	732.63	79.51	113.59	1.86	0.06	0.04	0.83	0.01	8.72	12	25	58.93	OK	64	K2	29.53	29.53	4206.00	56564.70	13622.87	512840.00	51228.48	102456.97	tdk perlu					
65	K1	39.37	32.00	4206.00	309.80	792.01	OK	65	K1	39.37	32.00	34.37	309.80	442.57	4.03	5.76	0.16	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	65	K1	39.37	32.00	4206.00	56564.70	656.37	309800.00	64225.77	128451.54	tdk perlu					
66	K1	39.37	32.00	4206.00	444.29	1135.83	OK	66	K1	39.37	32.00	34.37	444.29	634.70	72.37	103.39	1.95	0.06	0.02	1.07	0.01	12.60	18	25	88.39	OK	66	K1	39.37	32.00	4206.00	56564.70	12474.02	444290.00	57278.53	134557.06	tdk perlu					
67	K1	39.37	32.00	4206.00	518.11	1324.55	OK	67	K1	39.37	32.00	34.37	518.11	740.16	13.73	19.61	0.32	0.01	0.00	1.07	0.01	12.60	18	25	88.39	OK	67	K1	39.37	32.00	4206.00	56564.70	2271.31	518110.00	68954.15	137908.31	tdk perlu					
68	K1	39.37	32.00	4206.00	530.10	1355.20	OK	68	K1	39.37	32.00	34.37	530.10	757.29	4.53	6.47	0.10	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	68	K1	39.37	32.00	4206.00	56564.70	754.37	530100.00	69226.31	138452.62	tdk perlu					
69	K1	39.37	32.00	4206.00	531.27	1358.20	OK	69	K1	39.37	32.00	34.37	531.27	758.96	0.65	0.93	0.01	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	69	K1	39.37	32.00	4206.00	56564.70	107.30	531270.00	69252.87	138505.74	tdk perlu					
70	K1	39.37	32.00	4206.00	450.39	1151.42	OK	70	K1	39.37	32.00	34.37	450.39	643.41	5.72	8.17	0.15	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	70	K1	39.37	32.00	4206.00	56564.70	951.99	450390.00	67416.99	134833.98	tdk perlu					
71	K1	39.37	32.00	4206.00	412.89	1055.56	OK	71	K1	39.37	32.00	34.37	412.89	589.84	0.44	0.63	0.01	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	71	K1	39.37	32.00	4206.00	56564.70	65.92	412890.00	66565.79	133131.57	tdk perlu					
72	K1	39.37	32.00	4206.00	285.04	728.71	OK	72	K1	39.37	32.00	34.37	285.04	407.20	0.19	0.27	0.01	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	72	K1	39.37	32.00	4206.00	56564.70	32.45	285040.00	63663.75	127327.49	tdk perlu					
73	K1	39.37	32.00	4206.00	166.18	424.84	OK	73	K1	39.37	32.00	34.37	166.18	237.40	89.81	71.16	3.60	0.11	0.01	1.07	0.01	12.60	18	25	88.39	OK	73	K1	39.37	32.00	4206.00	56564.70	8498.77	166180.00	60965.77	121931.54	tdk perlu					
74	K1	39.37	32.00	4206.00	265.79	679.49	OK	74	K1	39.37	32.00	34.37	265.79	379.70	34.35	49.07	1.55	0.05	0.01	1.07	0.01	12.60	18	25	88.39	OK	74	K1	39.37	32.00	4206.00	56564.70	5865.82	265790.00	63226.79	126453.59	tdk perlu					
75	K1	39.37	32.00	4206.00	286.89	733.44	OK	75	K1	39.37	32.00	34.37	286.89	409.84	0.39	0.56	0.02	0.00	0.00	1.07	0.01	12.60	18	25	88.39	OK	75	K1	39.37	32.00	4206.00	56564.70	58.26	286890.00	63705.74	127411.48	tdk perlu					


Tabel Perhitungan Penampang Kolom Lt.6							Tabel Perhitungan Tulangan Lentur Kolom Lt.6																	Tabel perhitungan tulangan geser kolom Lt.6																		
No	section	b	h	f' _c	P _u	A _g	cek penampang	No.	section	b	h	γ _h	P _u	P _n	M _u	M _n	e	e/h	(δP _u e)/ A _g h	γ	ρ	A _s	desain n	D	A _{s, desain}	Cek	No.	section	b	h	f' _c	f' _t	V _u	N _u	1/2δV _u	ØV _u	cek	V _s	Ø s _{kg}	Av	n	s
		(in.)	(in.)	(psi)	(kip)	(cm. ²)			(in.)	(in.)	(in.)	(kip)	(kip)	(ft-k)	(ft-k)	(in.)									(mm)	(cm. ²)			(in.)	(in.)	(psi)	(psi)	(lb)	(lb)	(lb)	(lb)			(mm)	(in ²)		(in)
76	K3	23.62	23.62	4206.00	225.42	576.29	OK	76	K3	23.62	23.62	18.62	225.42	322.03	50.78	72.54	2.70	0.11	0.05	0.79	0.01	5.579044	8	25	39.29	OK	76	K3	23.62	23.62	4206.00	56564.70	8814.48	225420.00	30444.27	60888.54	tdk perlu					
77	K2	29.53	29.53	4206.00	325.16	831.27	OK	77	K2	29.53	29.53	24.53	325.16	464.51	79.08	112.97	2.92	0.10	0.04	0.83	0.01	8.720209	12	25	58.93	OK	77	K2	29.53	29.53	4206.00	56564.70	13521.14	325160.00	46968.37	93936.75	tdk perlu					
78	K2	29.53	29.53	4206.00	301.43	770.61	OK	78	K2	29.53	29.53	24.53	301.43	430.61	74.15	105.93	2.95	0.10	0.03	0.83	0.01	8.720209	12	25	58.93	OK	78	K2	29.53	29.53	4206.00	56564.70	12910.34	301430.00	46429.73	92859.46	tdk perlu					
79	K2	29.53	29.53	4206.00	341.08	871.97	OK	79	K2	29.53	29.53	24.53	341.08	487.26	80.86	115.51	2.84	0.10	0.04	0.83	0.01	8.720209	12	25	58.93	OK	79	K2	29.53	29.53	4206.00	56564.70	13992.46	341080.00	47329.74	94659.48	tdk perlu					
80	K1	39.37	32.00	4206.00	204.53	522.88	OK	80	K1	39.37	32.00	34.37	204.53	292.19	4.26	6.09	0.25	0.01	0.00	1.07	0.01	12.5984	18	25	88.39	OK	80	K1	39.37	32.00	4206.00	56564.70	724.06	204530.00	61836.27	123672.53	tdk perlu					
81	K1	39.37	32.00	4206.00	320.13	818.41	OK	81	K1	39.37	32.00	34.37	320.13	457.33	67.99	97.13	2.55	0.08	0.02	1.07	0.01	12.5984	18	25	88.39	OK	81	K1	39.37	32.00	4206.00	56564.70	11621.69	320130.00	64460.25	128920.49	tdk perlu					
82	K1	39.37	32.00	4206.00	345.51	883.30	OK	82	K1	39.37	32.00	34.37	345.51	493.59	12.04	17.20	0.42	0.01	0.00	1.07	0.01	12.5984	18	25	88.39	OK	82	K1	39.37	32.00	4206.00	56564.70	1773.90	345510.00	65036.34	130072.68	tdk perlu					
83	K1	39.37	32.00	4206.00	354.15	905.39	OK	83	K1	39.37	32.00	34.37	354.15	505.93	4.18	5.97	0.14	0.00	0.00	1.07	0.01	12.5984	18	25	88.39	OK	83	K1	39.37	32.00	4206.00	56564.70	649.86	354150.00	65232.46	130464.92	tdk perlu					
84	K1	39.37	32.00	4206.00	355.16	907.97	OK	84	K1	39.37	32.00	34.37	355.16	507.37	1.81	2.59	0.06	0.00	0.00	1.07	0.01	12.5984	18	25	88.39	OK	84	K1	39.37	32.00	4206.00	56564.70	257.85	355160.00	65255.39	130510.77	tdk perlu					
85	K1	39.37	32.00	4206.00	300.97	769.43	OK	85	K1	39.37	32.00	34.37	300.97	429.96	4.38	6.26	0.17	0.01	0.00	1.07	0.01	12.5984	18	25	88.39	OK	85	K1	39.37	32.00	4206.00	56564.70	555.07	300970.00	64025.34	128050.68	tdk perlu					
86	K1	39.37	32.00	4206.00	275.93	705.42	OK	86	K1	39.37	32.00	34.37	275.93	394.19	1.16	1.66	0.05	0.00	0.00	1.07	0.01	12.5984	18	25	88.39	OK	86	K1	39.37	32.00	4206.00	56564.70	116.35	275930.00	63456.96	126913.92	tdk perlu					
87	K1	39.37	32.00	4206.00	190.69	487.50	OK	87	K1	39.37	32.00	34.37	190.69	272.41	0.26	0.37	0.02	0.00	0.00	1.07	0.01	12.5984	18	25	88.39	OK	87	K1	39.37	32.00	4206.00	56564.70	40.57	190690.00	61522.12	123044.23	tdk perlu					
88	K1	39.37	32.00	4206.00	111.41	284.82	OK	88	K1	39.37	32.00	34.37	111.41	159.16	47.42	67.74	5.11	0.16	0.01	1.07	0.01	12.5984	18	25	88.39	OK	88	K1	39.37	32.00	4206.00	56564.70	7794.52	111410.00	59722.56	119445.11	tdk perlu					
89	K1	39.37	32.00	4206.00	177.69	454.27	OK	89	K1	39.37	32.00	34.37	177.69	253.84	60.29	86.13	4.07	0.13	0.02	1.07	0.01	12.5984	18	25	88.39	OK	89	K1	39.37	32.00	4206.00	56564.70	7769.97	177690.00	61227.03	122454.06	tdk perlu					
90	K1	39.37	32.00	4206.00	192.04	490.95	OK	90	K1	39.37	32.00	34.37	192.04	274.34	0.48	0.69	0.03	0.00	0.00	1.07	0.01	12.5984	18	25	88.39	OK	90	K1	39.37	32.00	4206.00	56564.70	69.10	192040.00	61552.76	123105.52	tdk perlu					

Tabel Perhitungan Penampang Kolom Lt.6								Tabel Perhitungan Tulangan Lentur Kolom Lt.7														Tabel perhitungan tulangan geser kolom Lt.6																					
No	section	b	h	f _c '	P _u	A _g	cek penampang	No.	section	b	h	γ _b	P _u	P _n	M _u	M _n	e	e/h	(ØP _u e)/ A _g h	γ	ρ	A _s	desain n D (mm)	A _s desain (cm ²)	Cek	No.	section	b	h	f _c	f _y	V _u	N _u	1/2ØV _u	ØV _u	cek	V _s	Ø skg (mm)	A _v (in ²)	n	s (in)		
		(in.)	(in.)	(psi)	(kip)	(cm ²)				(in.)	(in.)	(in.)	(kip)	(kip)	(ft-k)	(ft-k)	(in.)													(in.)	(in.)	(psi)	(psi)	(lb)	(lb)	(lb)	(lb)						
76	K3	23.62	23.62	4206.00	115.36	294.92	OK	76	K3	23.62	23.62	18.62	115.36	164.80	63.10	90.14	6.56	0.28	0.06	0.79	0.01	5.579044	8	25	39.29	OK	76	K3	23.62	23.62	4206.00	56564.70	8911.01	115360.00	27946.04	55892.08	tdk perlu						
77	K2	29.53	29.53	4206.00	160.80	411.09	OK	77	K2	29.53	29.53	24.53	160.80	229.71	114.37	163.39	8.54	0.29	0.05	0.83	0.01	8.720209	12	25	58.93	OK	77	K2	29.53	29.53	4206.00	56564.70	15466.61	160800.00	43237.60	86475.20	tdk perlu						
78	K2	29.53	29.53	4206.00	139.49	356.61	OK	78	K2	29.53	29.53	24.53	139.49	199.27	106.90	152.71	9.20	0.31	0.05	0.83	0.01	8.720209	12	25	58.93	OK	78	K2	29.53	29.53	4206.00	56564.70	14652.61	139490.00	42753.89	85507.78	tdk perlu						
79	K2	29.53	29.53	4206.00	158.17	404.36	OK	79	K2	29.53	29.53	24.53	158.17	225.96	115.70	165.29	8.78	0.30	0.05	0.83	0.01	8.720209	12	25	58.93	OK	79	K2	29.53	29.53	4206.00	56564.70	15906.10	158170.00	43177.90	86355.81	tdk perlu						
80	K1	39.37	32.00	4206.00	98.76	252.48	OK	80	K1	39.37	32.00	34.37	98.76	141.09	6.50	9.29	0.79	0.02	0.00	1.07	0.01	12.5984	18	25	88.39	OK	80	K1	39.37	32.00	4206.00	56564.70	826.90	98760.00	59435.42	118870.83	tdk perlu						
81	K1	39.37	32.00	4206.00	170.40	435.63	OK	81	K1	39.37	32.00	34.37	170.40	243.43	97.50	139.29	6.87	0.21	0.03	1.07	0.01	12.5984	18	25	88.39	OK	81	K1	39.37	32.00	4206.00	56564.70	13172.85	170400.00	61061.56	122123.11	tdk perlu						
82	K1	39.37	32.00	4206.00	172.68	441.46	OK	82	K1	39.37	32.00	34.37	172.68	246.69	32.30	46.14	2.24	0.07	0.01	1.07	0.01	12.5984	18	25	88.39	OK	82	K1	39.37	32.00	4206.00	56564.70	3759.23	172680.00	61113.31	122226.62	tdk perlu						
83	K1	39.37	32.00	4206.00	178.16	455.47	OK	83	K1	39.37	32.00	34.37	178.16	254.51	9.10	13.00	0.61	0.02	0.00	1.07	0.01	12.5984	18	25	88.39	OK	83	K1	39.37	32.00	4206.00	56564.70	1108.90	178160.00	61237.70	122475.40	tdk perlu						
84	K1	39.37	32.00	4206.00	179.01	457.64	OK	84	K1	39.37	32.00	34.37	179.01	255.73	1.30	1.86	0.09	0.00	0.00	1.07	0.01	12.5984	18	25	88.39	OK	84	K1	39.37	32.00	4206.00	56564.70	120.50	179010.00	61256.99	122513.99	tdk perlu						
85	K1	39.37	32.00	4206.00	151.07	386.21	OK	85	K1	39.37	32.00	34.37	151.07	215.81	14.90	21.29	1.18	0.04	0.00	1.07	0.01	12.5984	18	25	88.39	OK	85	K1	39.37	32.00	4206.00	56564.70	1644.70	151070.00	60622.79	121245.58	tdk perlu						
86	K1	39.37	32.00	4206.00	139.05	355.48	OK	86	K1	39.37	32.00	34.37	139.05	198.64	2.90	4.14	0.25	0.01	0.00	1.07	0.01	12.5984	18	25	88.39	OK	86	K1	39.37	32.00	4206.00	56564.70	235.16	139050.00	60349.95	120699.90	tdk perlu						
87	K1	39.37	32.00	4206.00	95.87	245.09	OK	87	K1	39.37	32.00	34.37	95.87	136.96	0.21	0.30	0.03	0.00	0.00	1.07	0.01	12.5984	18	25	88.39	OK	87	K1	39.37	32.00	4206.00	56564.70	26.60	95870.00	59369.82	118739.63	tdk perlu						
88	K1	39.37	32.00	4206.00	55.81	142.68	OK	88	K1	39.37	32.00	34.37	55.81	79.73	91.40	130.57	19.65	0.61	0.03	1.07	0.01	12.5984	18	25	88.39	OK	88	K1	39.37	32.00	4206.00	56564.70	11505.50	55810.00	58460.50	116931.01	tdk perlu						
89	K1	39.37	32.00	4206.00	177.69	454.27	OK	89	K1	39.37	32.00	34.37	177.69	253.84	60.30	86.14	4.07	0.13	0.02	1.07	0.01	12.5984	18	25	88.39	OK	89	K1	39.37	32.00	4206.00	56564.70	7769.90	177690.00	61227.03	122454.06	tdk perlu						
90	K1	39.37	32.00	4206.00	96.50	246.70	OK	90	K1	39.37	32.00	34.37	96.50	137.86	0.96	1.37	0.12	0.00	0.00	1.07	0.01	12.5984	18	25	88.39	OK	90	K1	39.37	32.00	4206.00	56564.70	81.10	96500.00	59384.12	118768.23	tdk perlu						



DENAH LT. 1
SKALA 1 : 200

UTARA



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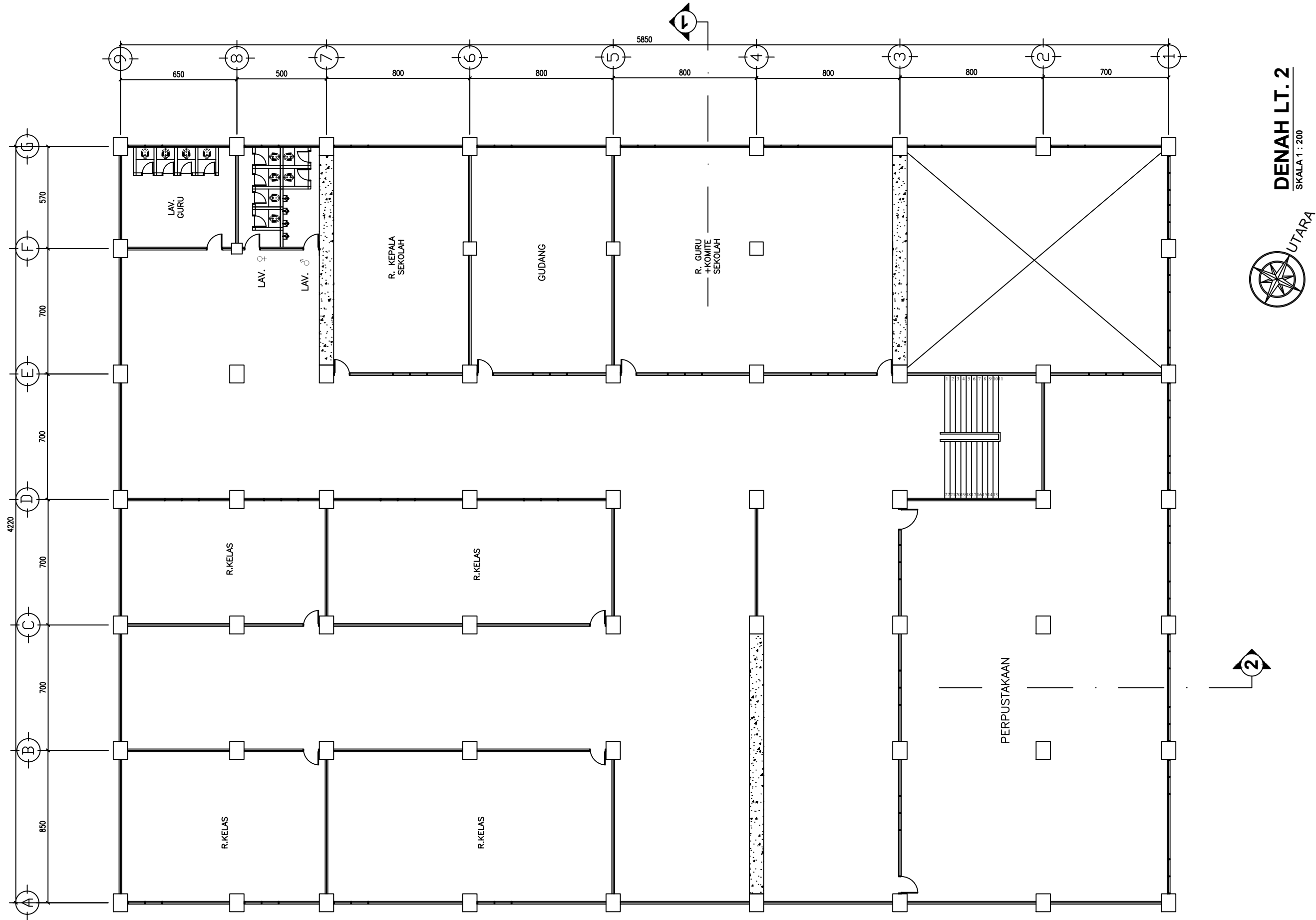
Title
DENAH LANTAI 1

Drawn by
TAN SINDU CAHYADI
12.12.0004
NATHANAEL EKA SURYA H
12.12.0033

Dosen Pembimbing
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Ir. Budi Setiyadi, MT

Drawing no
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DENAH LT. 2
SKALA 1 : 200

UTARA

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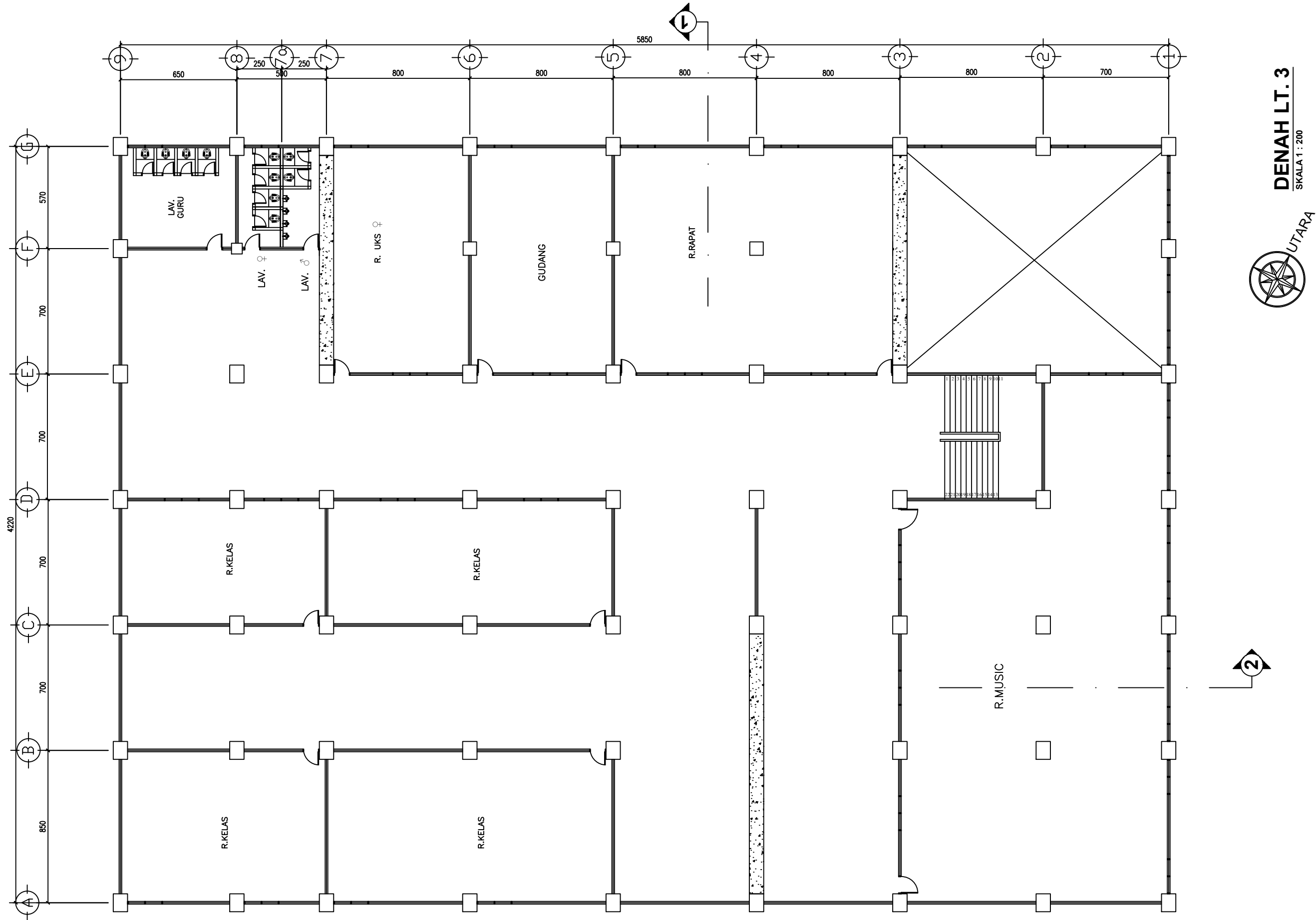
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DENAH LANTAI 2

Drawn by
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NATHANAEL EKA SURYA H
12.12.0033

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DENAH LT. 3
SKALA 1 : 200

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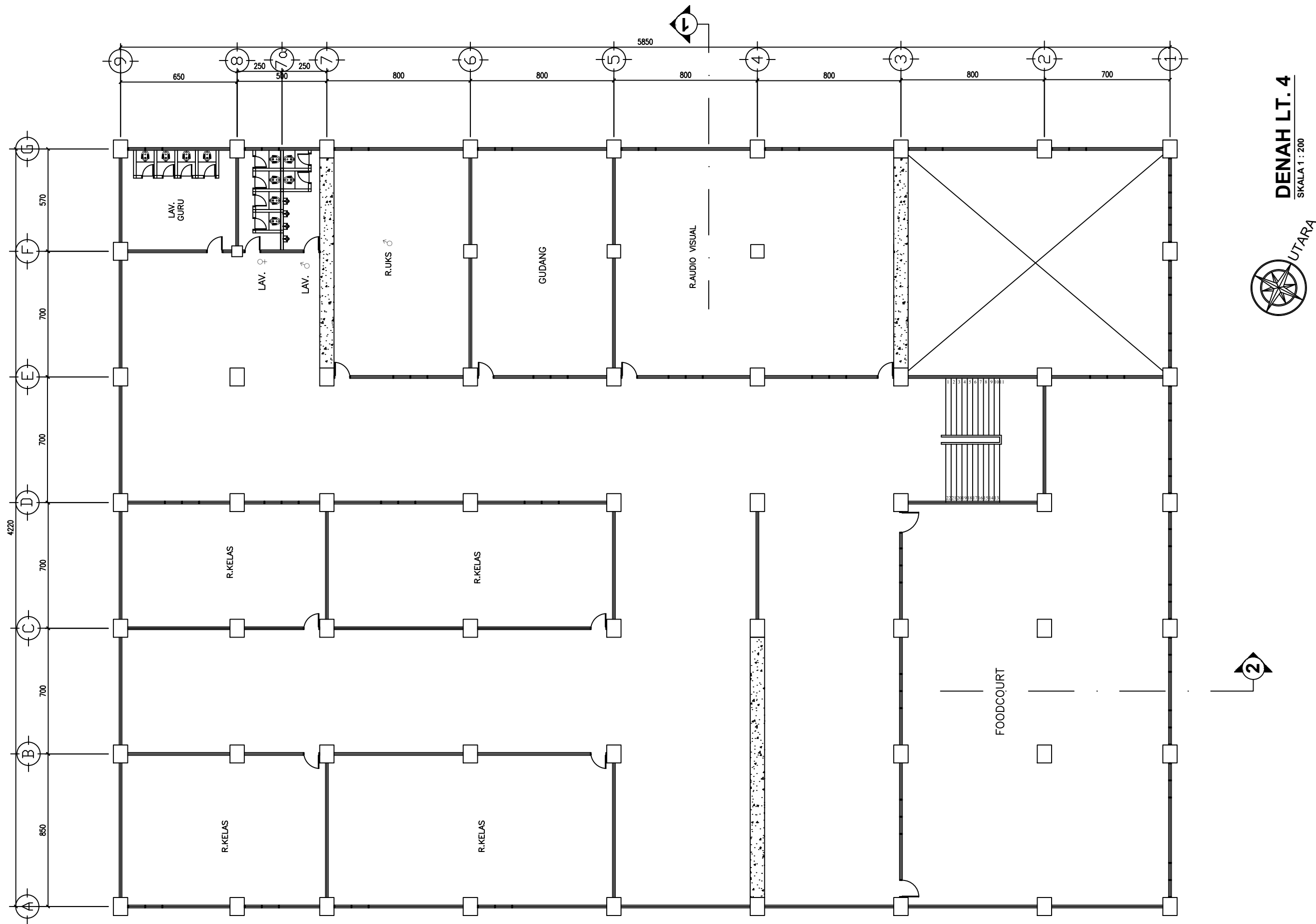
Title
DENAH LANTAI 3

Drawn by
TAN SINDU CAHYADI
12.12.0004
NATHANAEL EKA SURYA H
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DENAH LT. 4
SKALA 1 : 200



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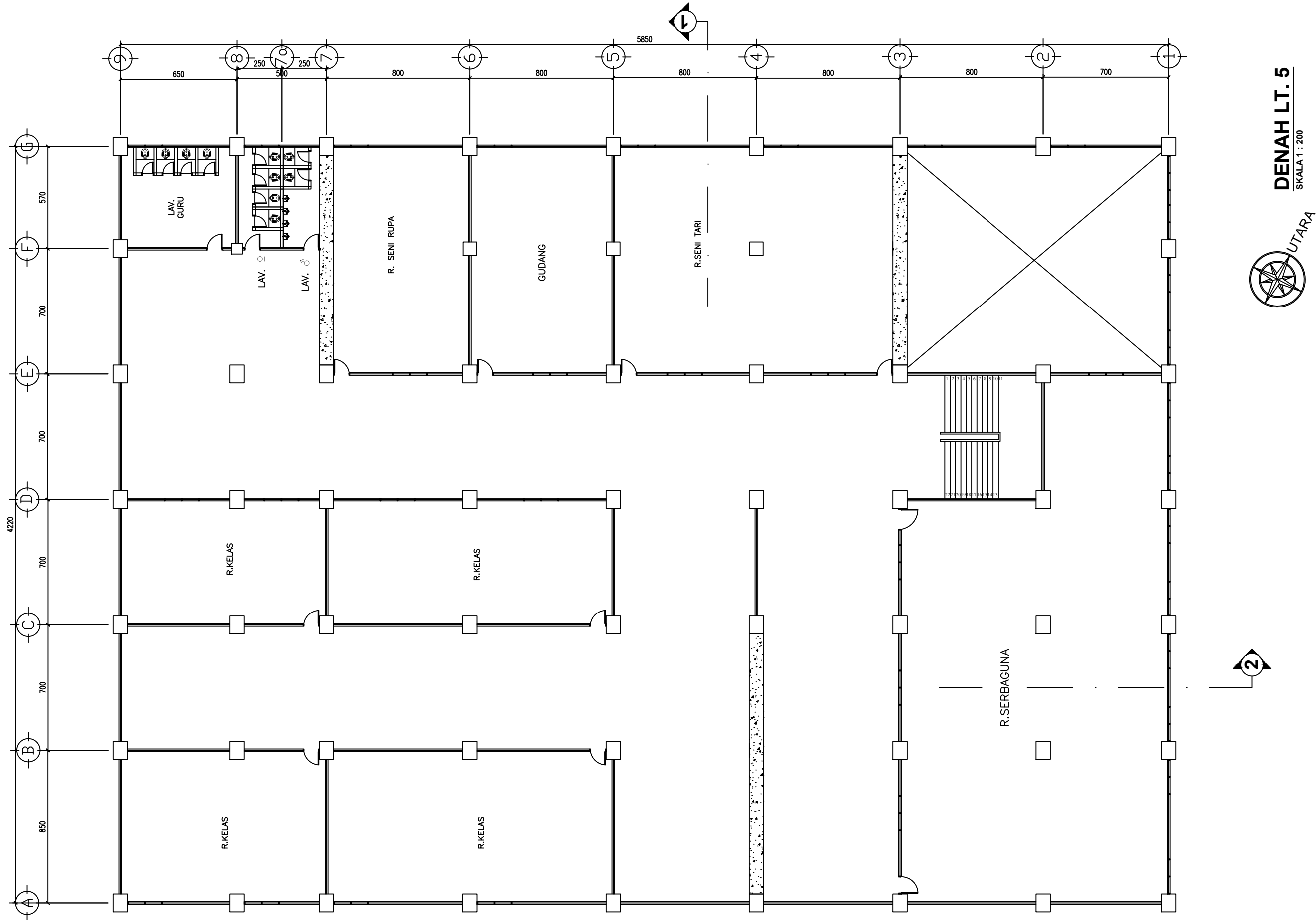
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DENAH LANTAI 4

Drawn by
TAN SINDU CAHYADI
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NATHANAEL EKA SURYA H
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DENAH LT. 5
SKALA 1 : 200



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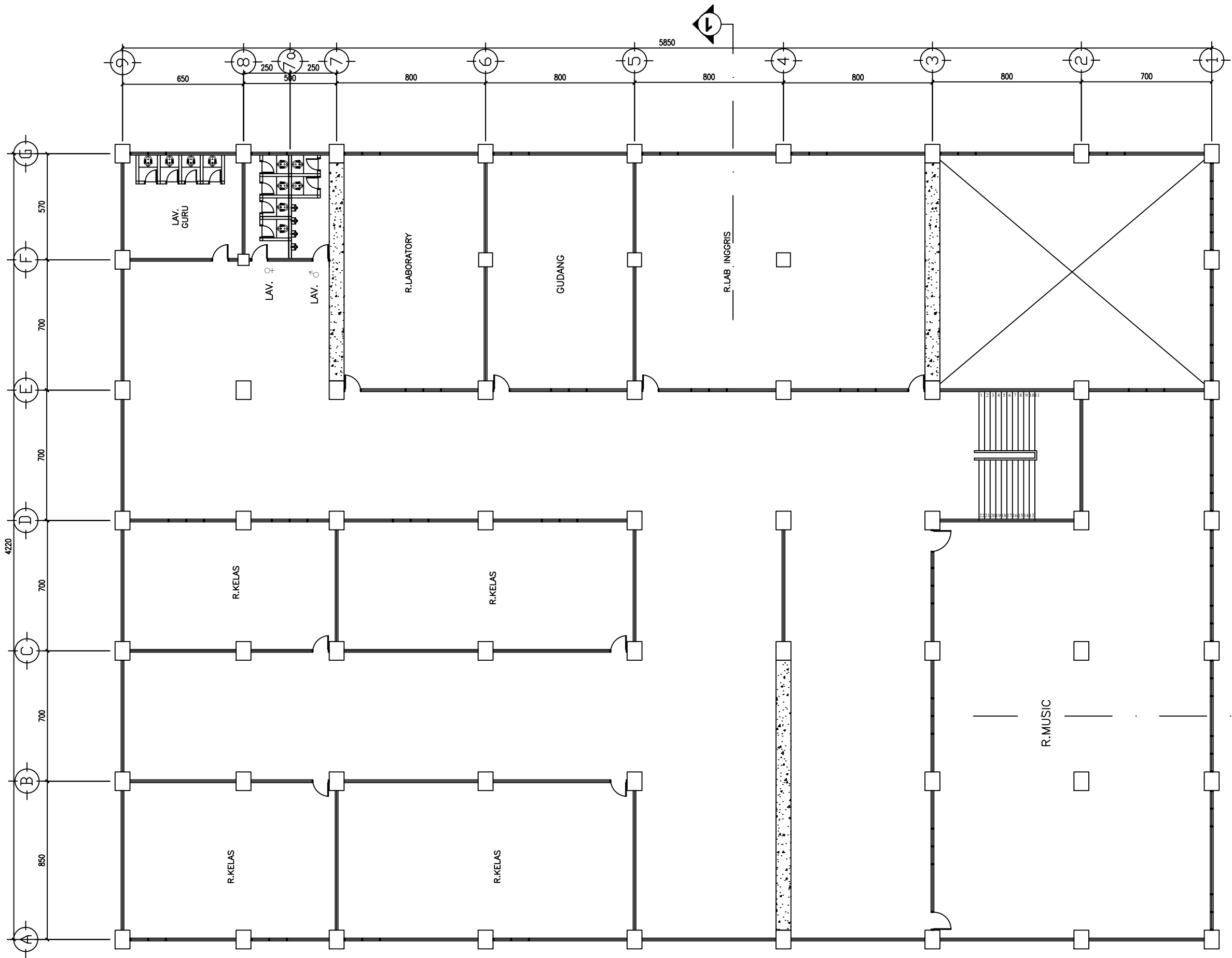
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DENAH LANTAI 5

Drawn by
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12.12.0004
NATHANAEL EKA SURYA H
12.12.0033

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DENAH LT. 6
SKALA 1 : 200

UTARA

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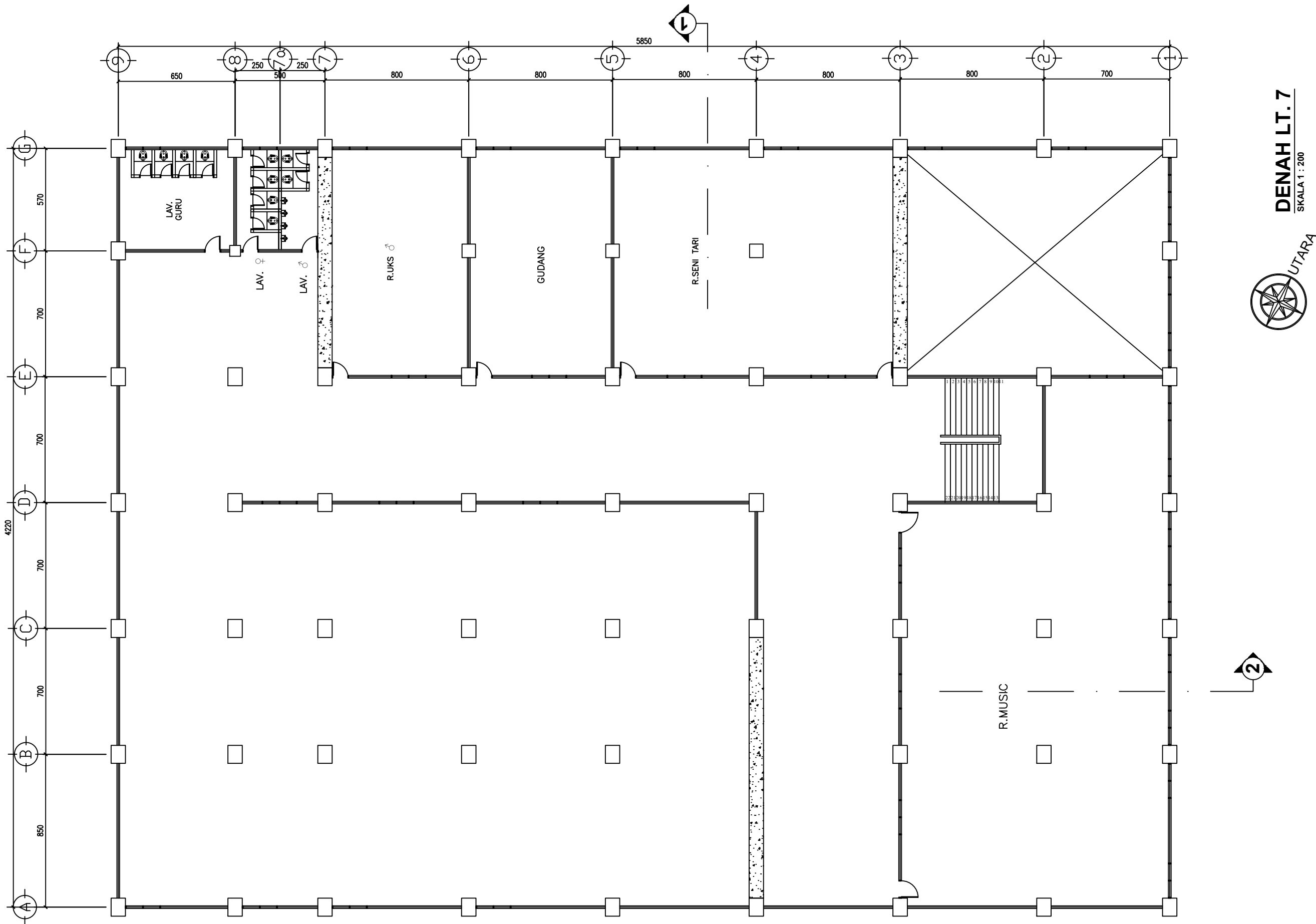
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DENAH LANTAI 6

Drawn by
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NATHANAEL EKA SURYA H
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SKALA 1 : 200



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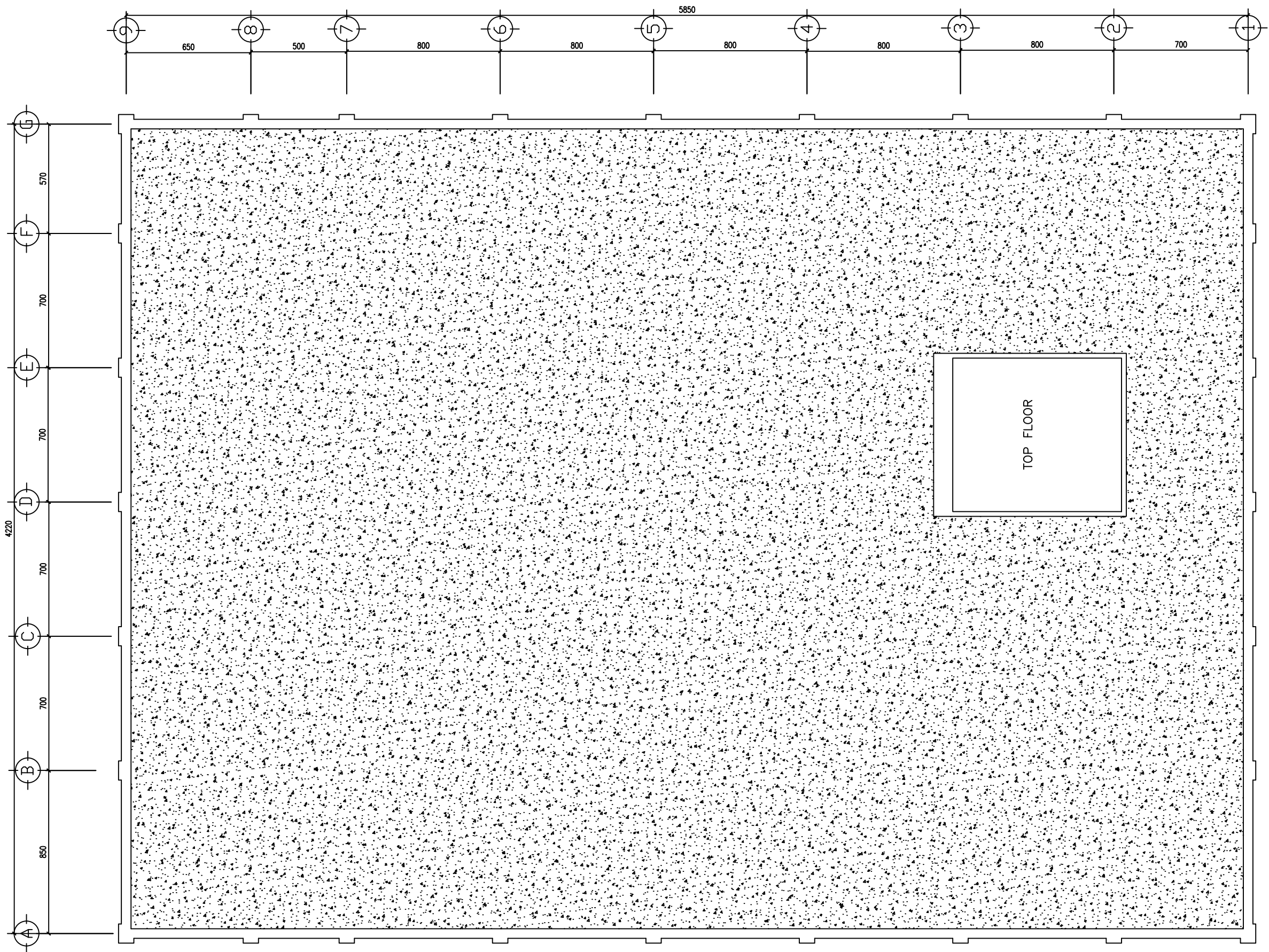
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NATHANAEL EKA SURYA H
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DENAH ATAP
SKALA 1 : 200



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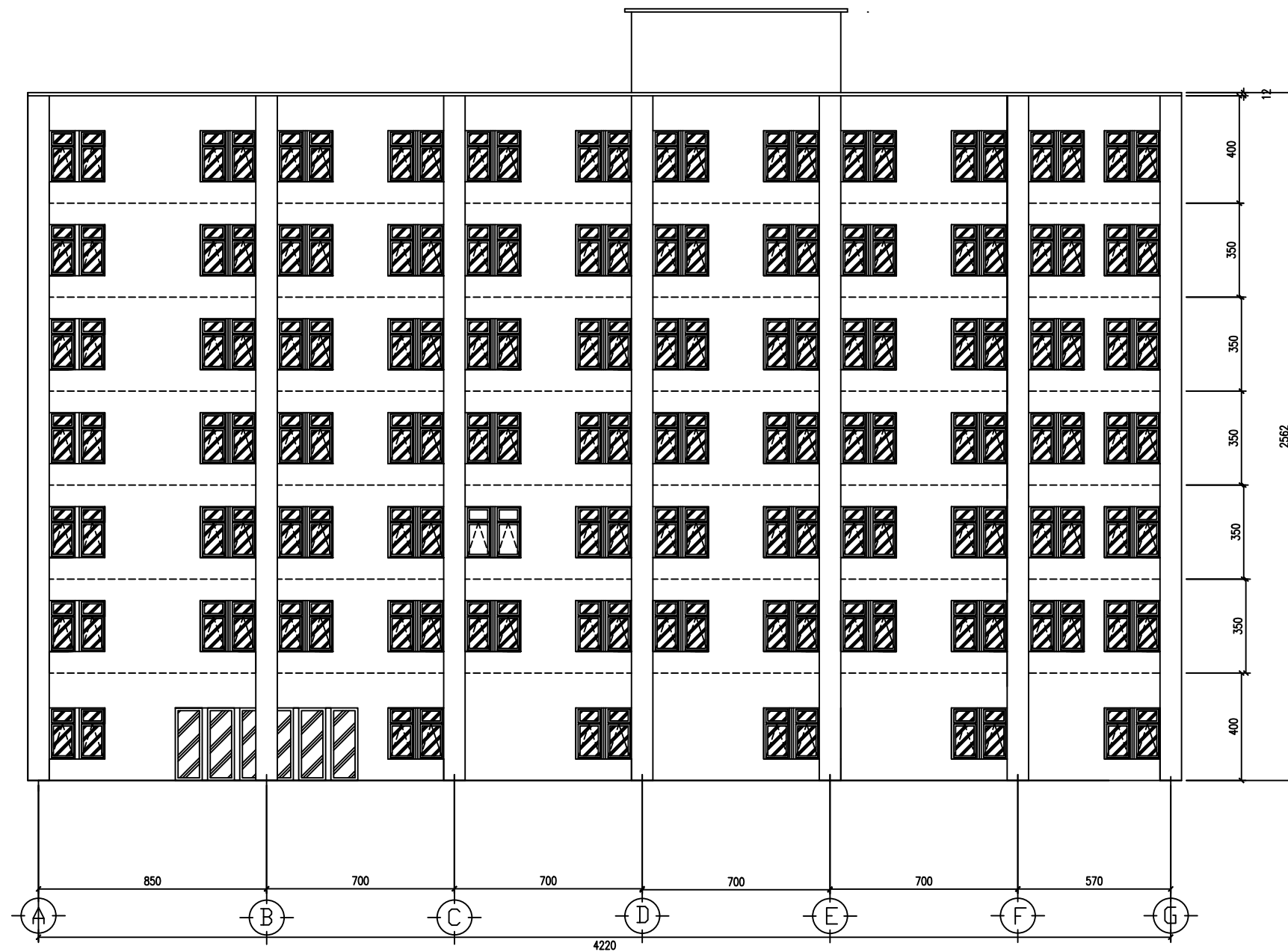
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DENAH ATAP

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TAMPAK DEPAN
SKALA 1 : 200



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TAMPAK DEPAN

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NATHANAEL EKA SURYA H
12.12.0033

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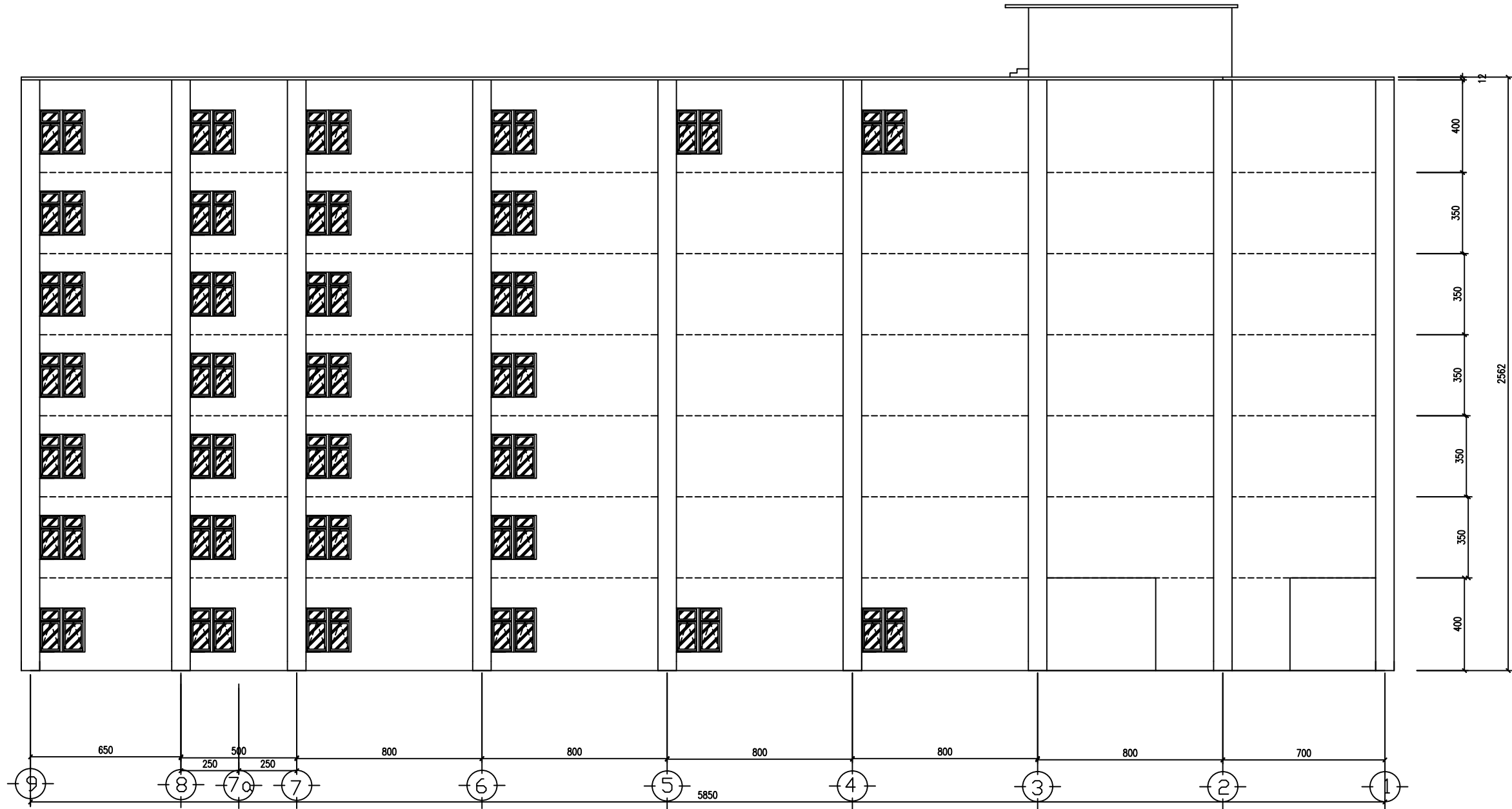
Title
TAMPAK SAMPING KIRI

Drawn by
TAN SINDU CAHYADI
12.12.0004
NATHANAEL EKA SURYA H
12.12.0033

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TAMPAK SAMPING KIRI
SKALA 1 : 200



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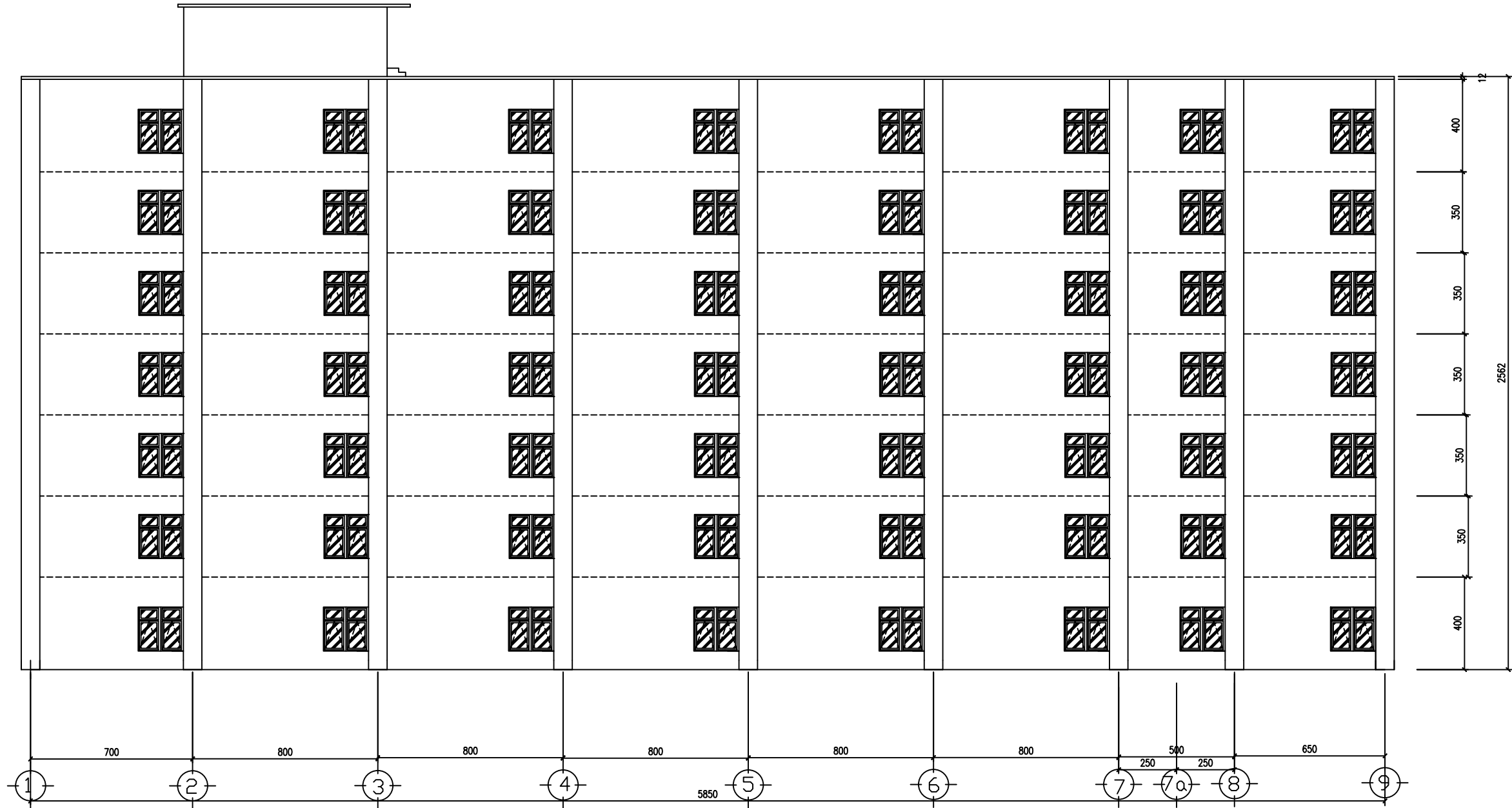
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TAMPAK SAMPING KANAN

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TAN SINDU CAHYADI
12.12.0004
NATHANAEL EKA SURYA H
12.12.0033

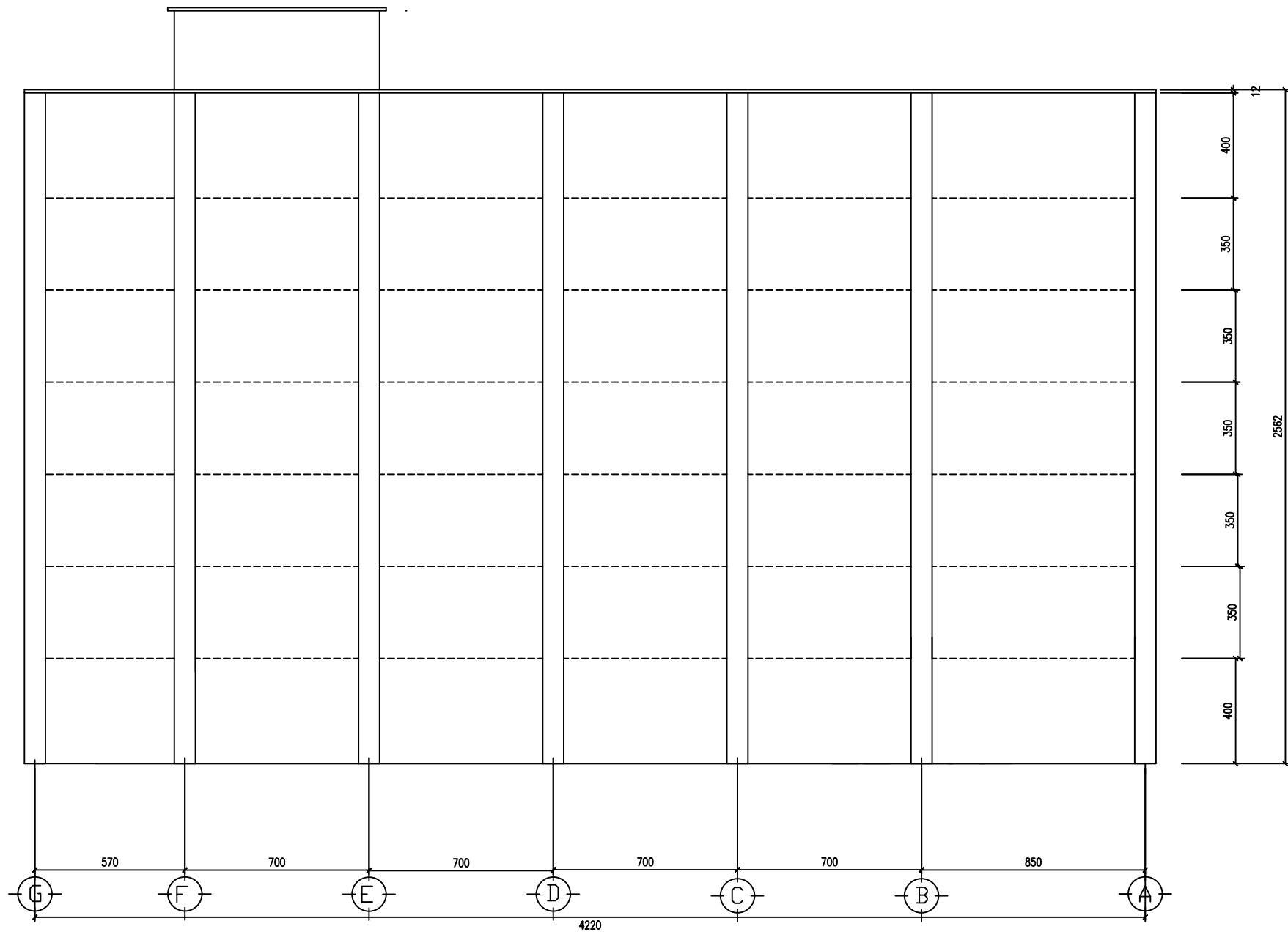
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TAMPAK SAMPING KANAN
SKALA 1 : 200



TAMPAK BELAKANG
SKALA 1 : 200



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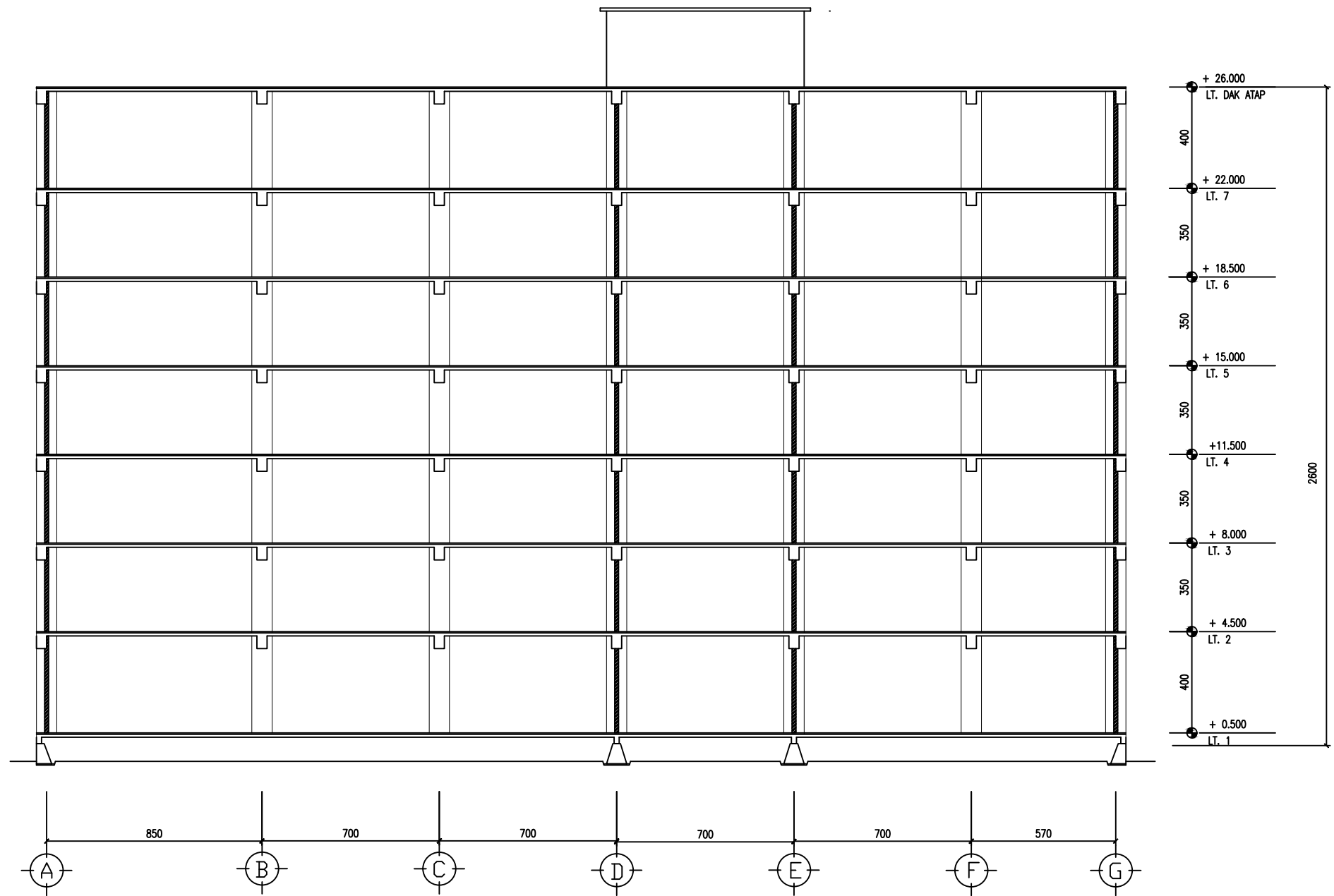
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TAMPAK BELAKANG

Drawn by
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NATHANAEL EKA SURYA H
12.12.0033

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POTONGAN 1
SKALA 1 : 200



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POTONGAN 1

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NATHANAEL EKA SURYA H
12.12.0033

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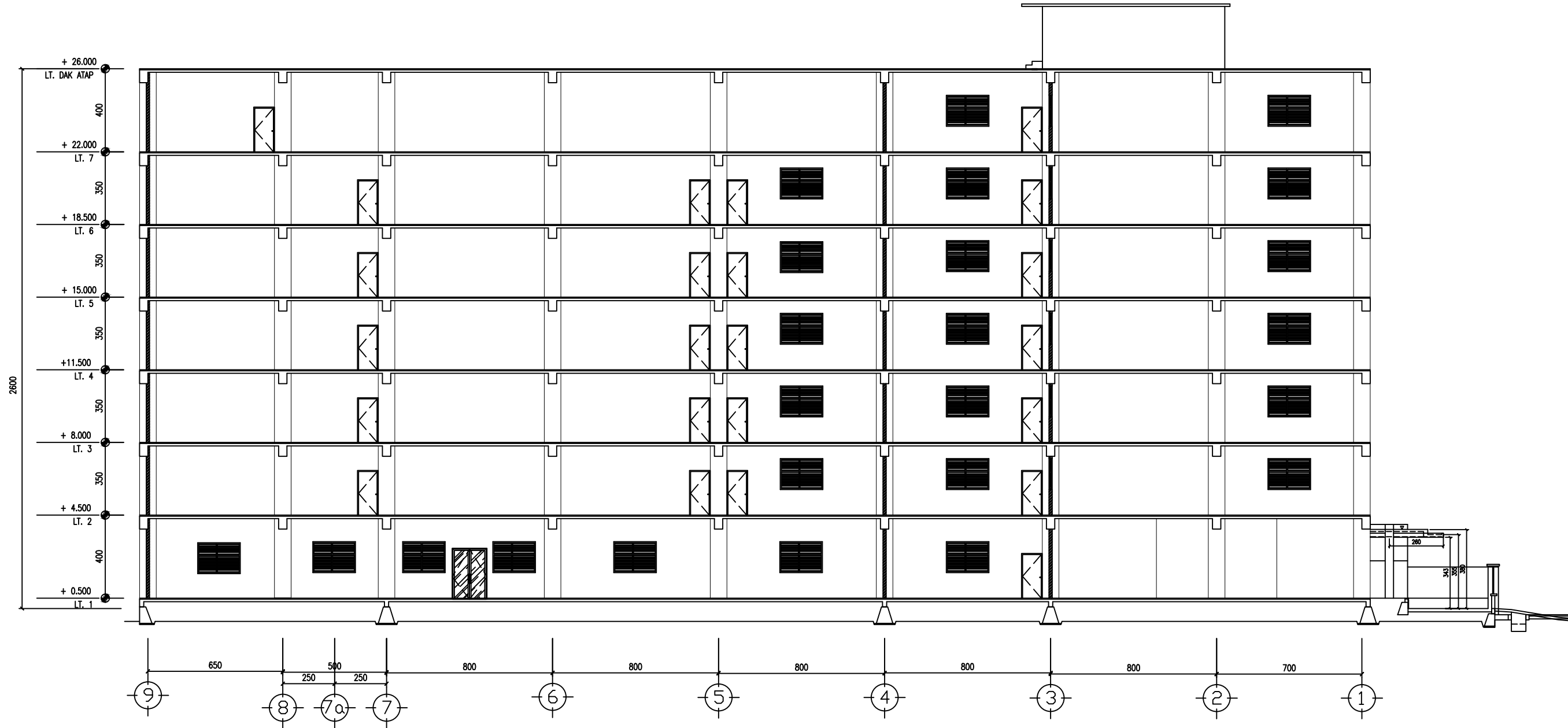
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POTONGAN 2

Drawn by
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12.12.0004
NATHANAEL EKA SURYA H
12.12.0033

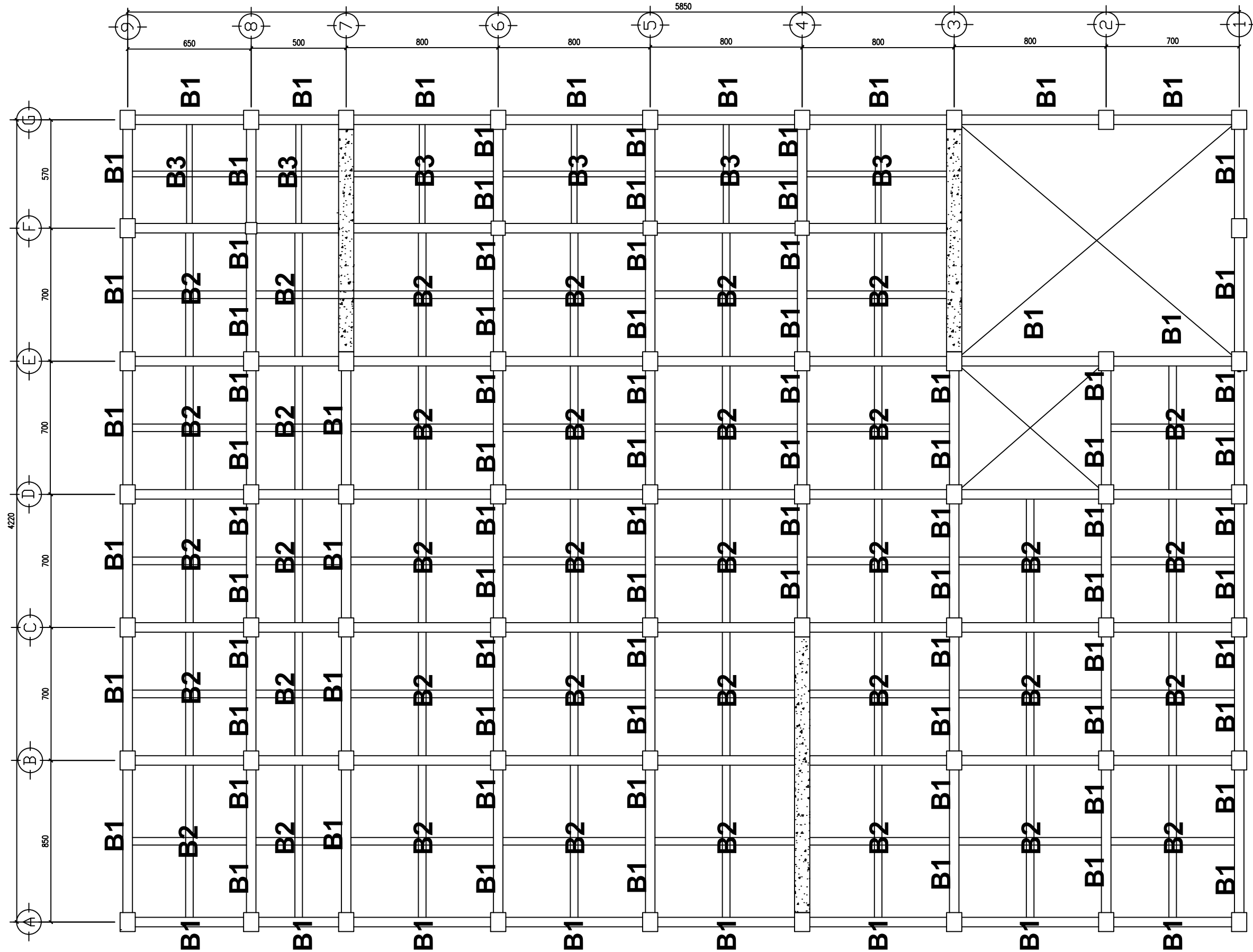
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POTONGAN 2
SKALA 1 : 200



B1: 50x70 K1: 80x100
B2: 40x60 K2: 75x75
B3: 30x40 K3: 60x60



DENAH BALOK LANTAI 2-7
SKALA 1 : 200



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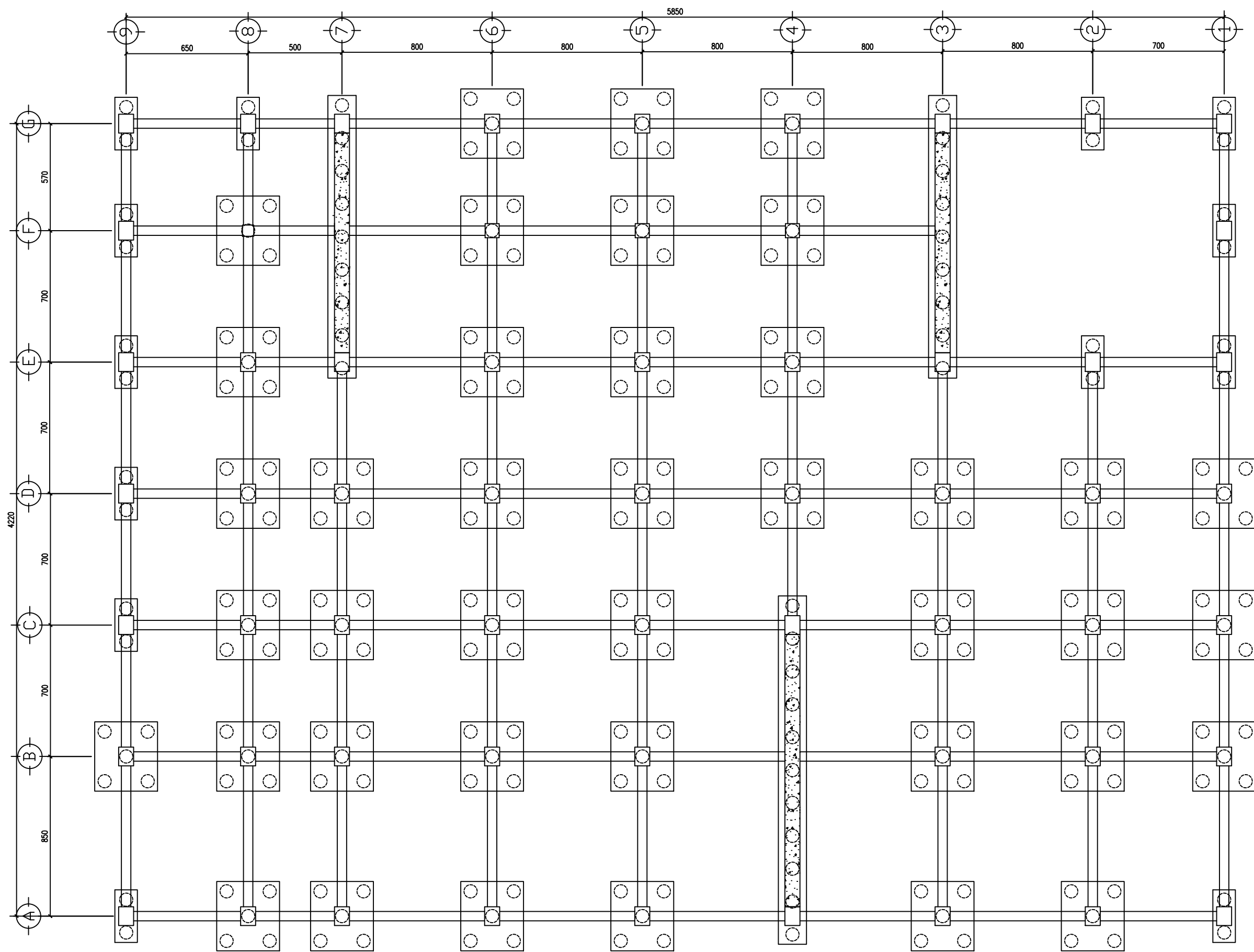
Title
DENAH BALOK LANTAI 1-7

Drawn by
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DENAH PONDASI
SKALA 1 : 200



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PERENCANAAN GEDUNG
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JL. SIDODADI BARAT NO 21A
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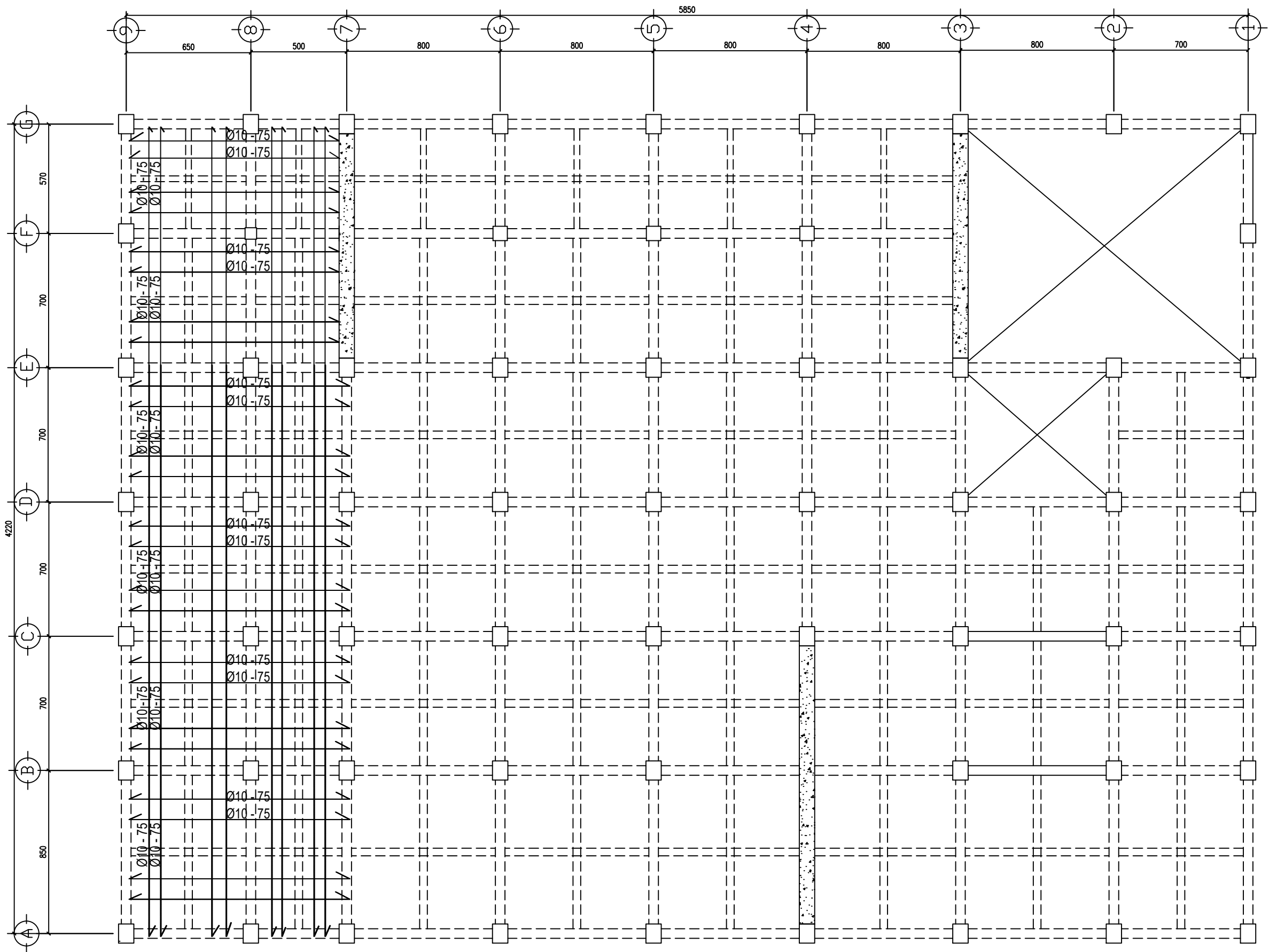
Title
DENAH PONDASI

Drawn by
TAN SINDU CAHYADI
12.12.0004
NATHANAEL EKA SURYA H
12.12.0033

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DENAH PLAT LANTAI 2-7
SKALA 1 : 200



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JL. SIDODADI BARAT NO 21A
SEMARANG

Title
DENAH LANTAI 1

Drawn by
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12.12.0004
NATHANAEL EKA SURYA H
12.12.0033

Dosen Pembimbing
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Ir. Budi Setiyadi, MT

Drawing no
STR-003

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	BALOK 1 (TUMPUAN)	BALOK 2 (TUMPUAN)	BALOK 3 (TUMPUAN)
TULANGAN ATAS	12D22	6D22	4D22
TULANGAN TENGAH	4Ø12	2Ø12	-
TULANGAN BAWAH	4D22	4D22	3D22
TULANGAN SENGKANG	Ø10 - 100	Ø10 - 100	Ø10 - 100
GAMBAR PENULANGAN			

	BALOK 1 (LAPANGAN)	BALOK 2 (LAPANGAN)	BALOK 3 (LAPANGAN)
TULANGAN ATAS	4D22	4D22	3D22
TULANGAN TENGAH	4Ø12	2Ø12	-
TULANGAN BAWAH	4D22	4D22	2D22
TULANGAN SENGKANG	Ø10 - 150	Ø10 - 150	Ø10 - 150
GAMBAR PENULANGAN			



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Title
DETAIL BALOK

Drawn by
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12.12.0004
NATHANAEL EKA SURYA H
12.12.0033

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Ir. Budi Setiyadi, MT

Drawing no
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	TIE BEAM 1 (TUMPUAN)	TIE BEAM 2 (TUMPUAN)	TIE BEAM 3 (TUMPUAN)
TULANGAN ATAS	4D16	3D13	2D13
TULANGAN BAWAH	4D16	3D13	3D13
TULANGAN SENGKANG	Ø10 - 100	Ø10 - 100	Ø10 - 100
GAMBAR PENULANGAN			

	TIE BEAM 1 (LAPANGAN)	TIE BEAM 2 (LAPANGAN)	TIE BEAM 3 (LAPANGAN)
TULANGAN ATAS	4D16	3D13	3D13
TULANGAN BAWAH	3D16	2D13	2D13
TULANGAN SENGKANG	Ø10 - 150	Ø10 - 150	Ø10 - 150
GAMBAR PENULANGAN			



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SEMARANG

Title

DETAIL SLOOF

Drawn by

TAN SINDU CAHYADI
12.12.0004

NATHANAEL EKA SURYA H
12.12.0033

Dosen Pembimbing

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Title
DETAIL KOLOM

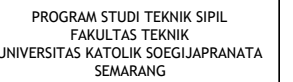
Drawn by
TAN SINDU CAHYADI
12.12.0004
NATHANAEL EKA SURYA H
12.12.0033

Dosen Pembimbing
Ir. David Widiyanto, MT
Ir. Budi Setiyadi, MT

Drawing no
STR-006

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property of TA

	KOLOM 1	KOLOM 2	KOLOM 3
TULANGAN UTAMA	18D25	12D25	8D25
TULANGAN SENGKANG (TUMPUAN)	Ø10 - 100	Ø10 - 100	Ø10 - 100
TULANGAN SENGKANG (LAPANGAN)	Ø10 - 150	Ø10 - 150	Ø10 - 150
GAMBAR PENULANGAN			



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Title

DETAIL TANGGA 1

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12.12.0004

NATHANAEL EKA SURYA H
12.12.0033

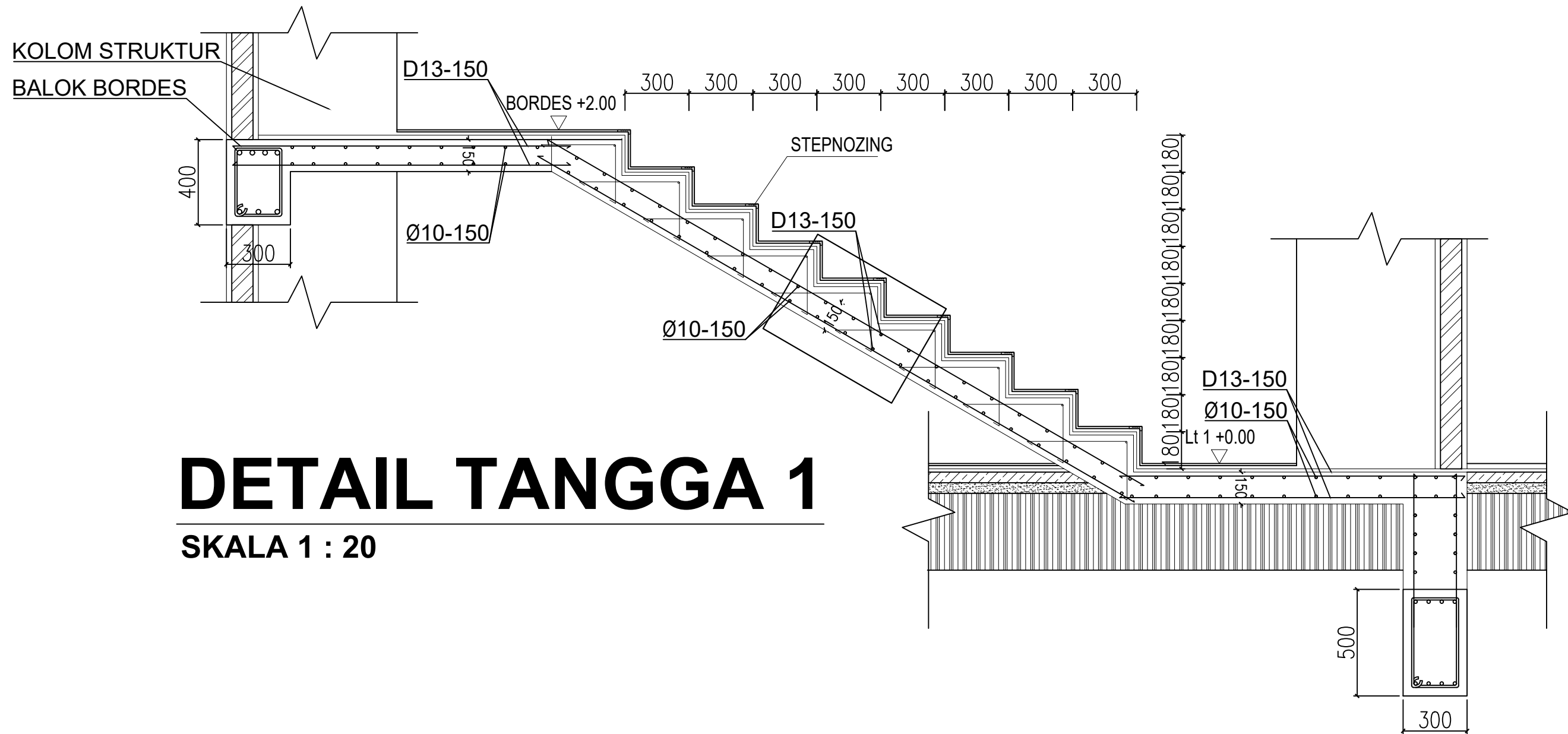
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STR-007

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DETAIL TANGGA 1

SKALA 1 : 20

SKALA 1 : 20



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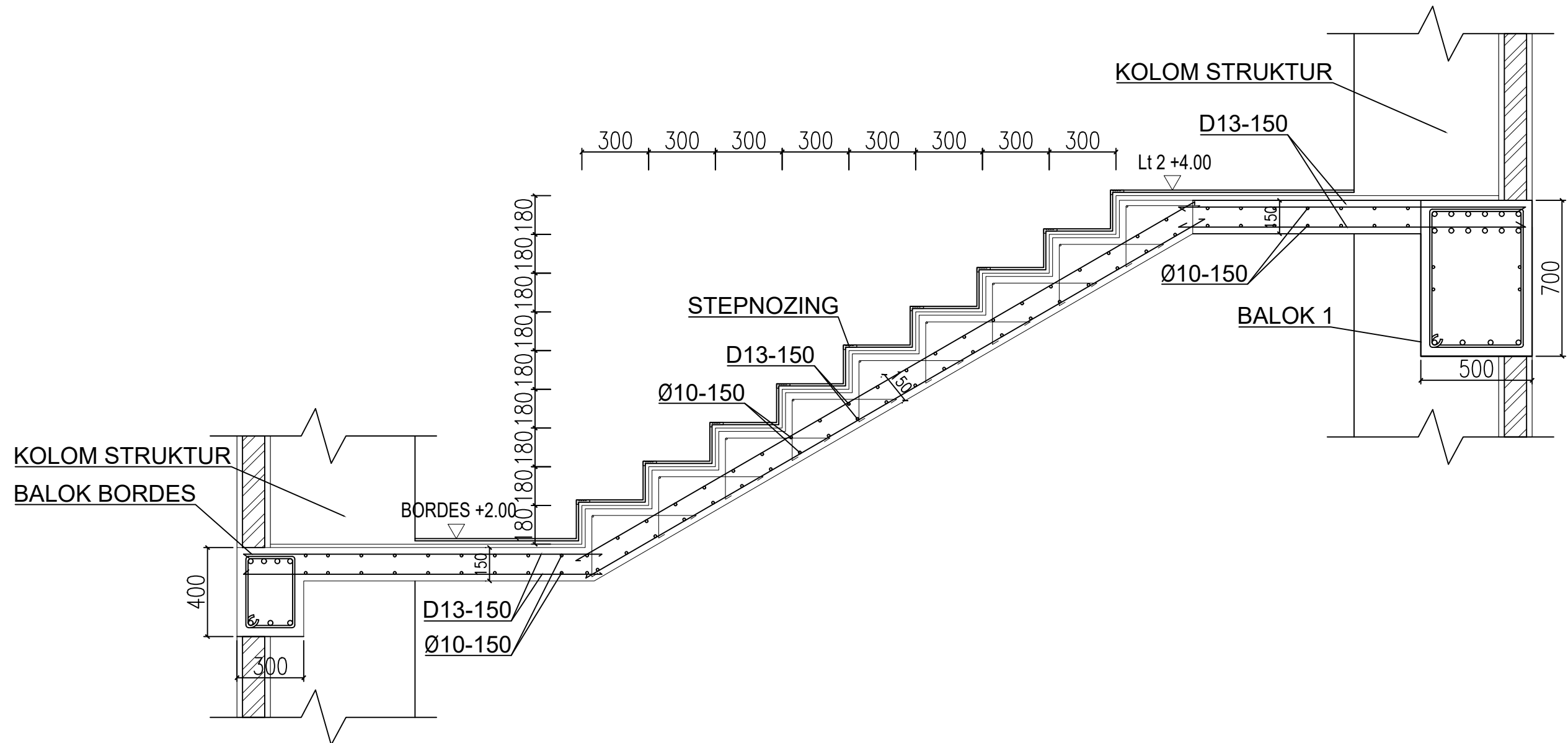
Title
DETAIL TANGGA 2

Drawn by
TAN SINDU CAHYADI
12.12.0004
NATHANAEL EKA SURYA H
12.12.0033

Dosen Pembimbing
Ir. David Widiyanto, MT
Ir. Budi Setiyadi, MT

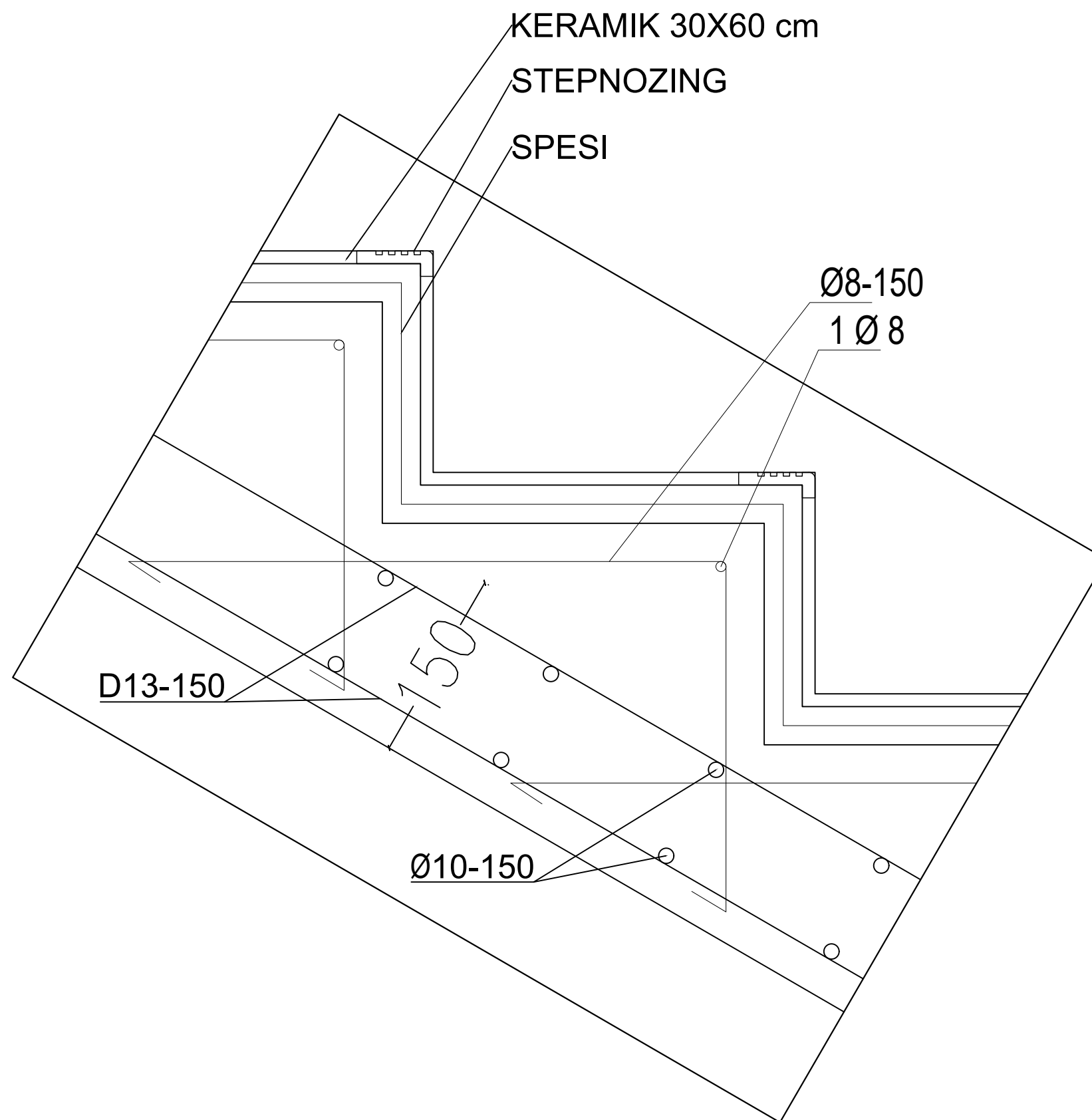
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STR-008

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DETAIL TANGGA 2

SKALA 1 : 20



DETAIL TANGGA 3

SKALA 1 : 10



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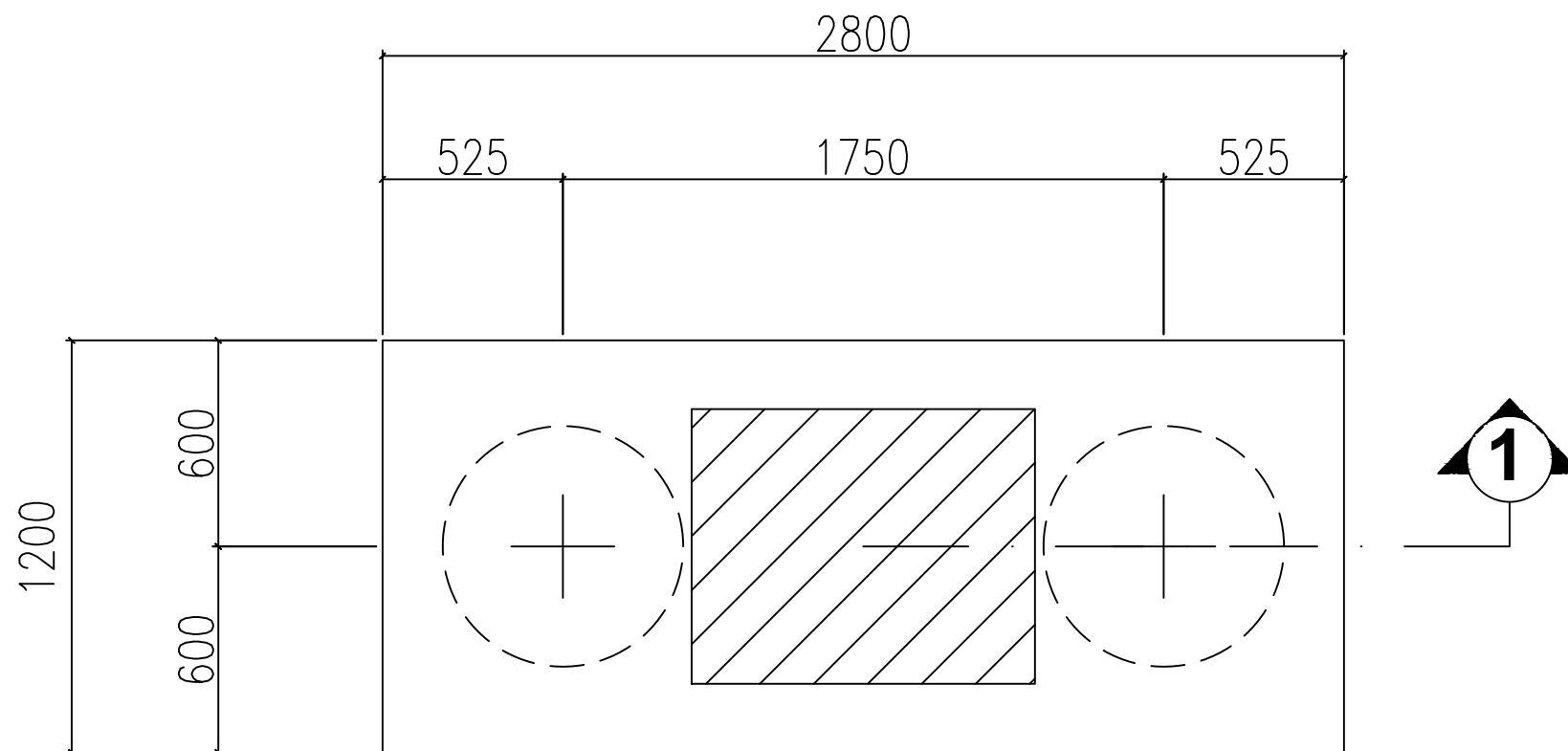
Title
DETAIL TANGGA 3

Drawn by
TAN SINDU CAHYADI
12.12.0004
NATHANAEL EKA SURYA H
12.12.0033

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Ir. Budi Setiyadi, MT

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STR-009

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DETAIL PILECAP 2

SKALA 1 : 20



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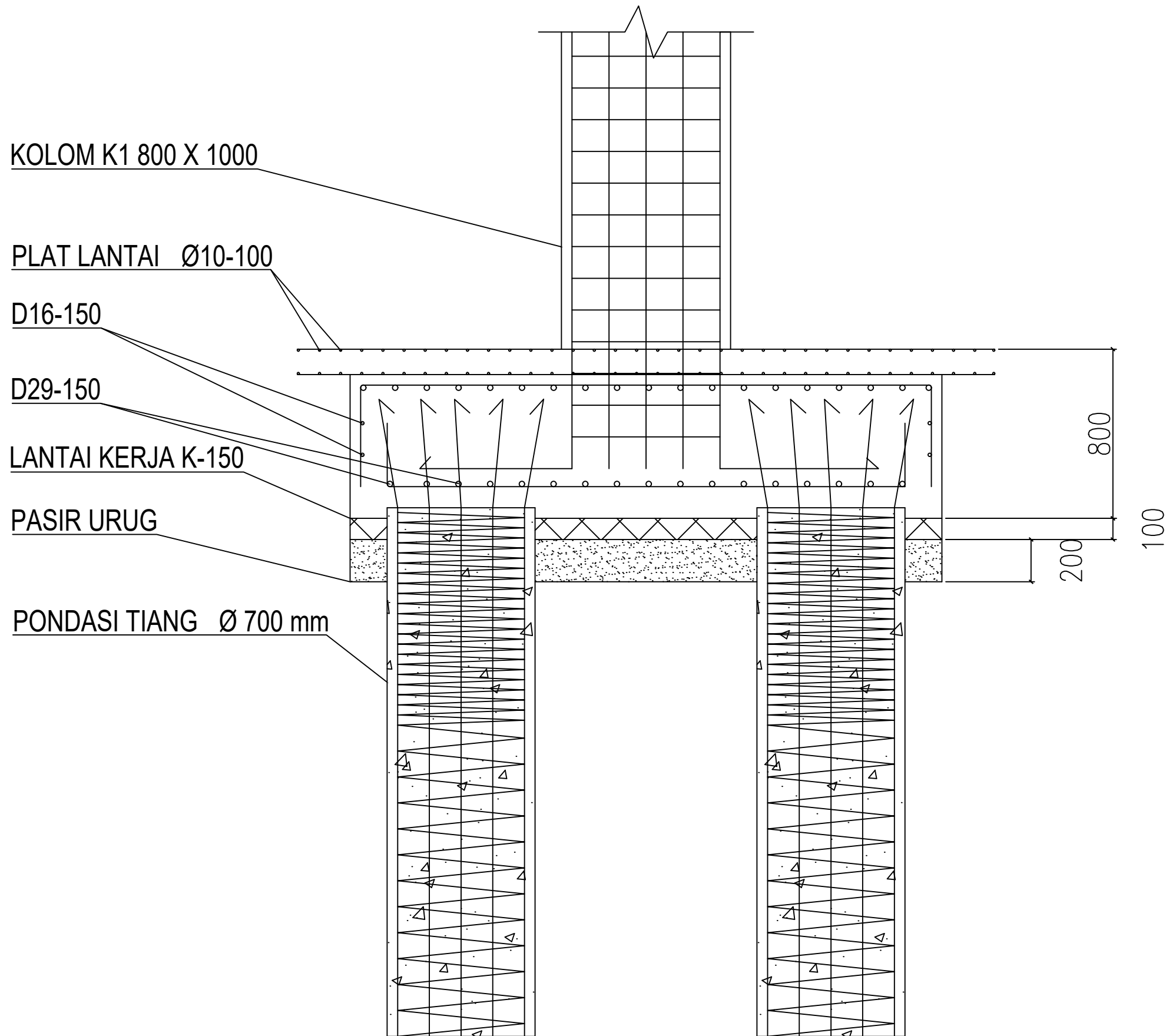
Title
DETAIL PILECAP 2

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12.12.0004
NATHANAEL EKA SURYA H
12.12.0033

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POTONGAN PILECAP 2

SKALA 1 : 20



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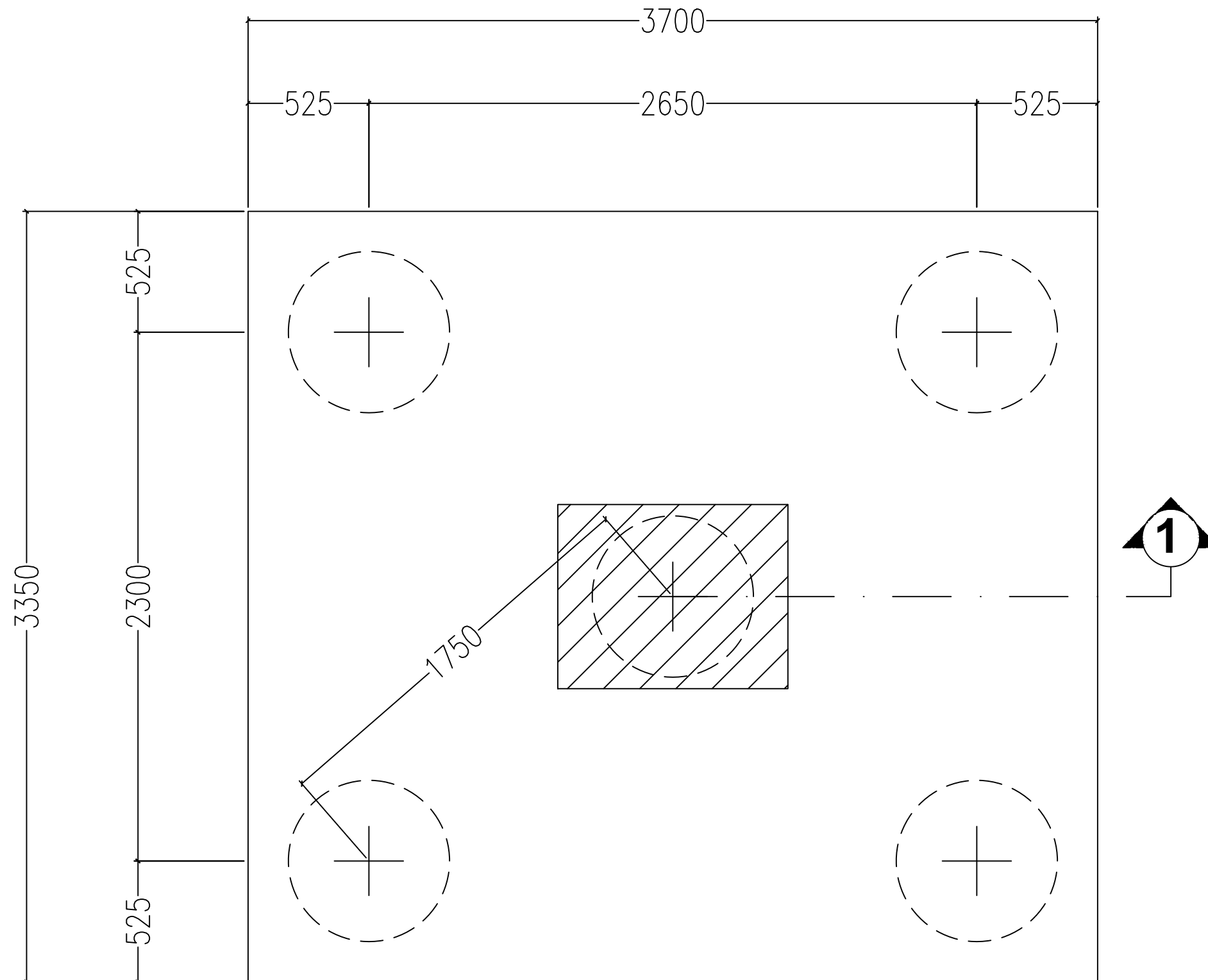
Title
POTONGAN PILECAP 2

Drawn by
TAN SINDU CAHYADI
12.12.0004
NATHANAEL EKA SURYA H
12.12.0033

Dosen Pembimbing
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Ir. Budi Setiyadi, MT

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DETAIL PILECAP 5

SKALA 1 : 20



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Title
DETAIL PILECAP 5

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NATHANAEL EKA SURYA H
12.12.0033

Dosen Pembimbing
Ir. David Widiyanto, MT
Ir. Budi Setiyadi, MT

Drawing no
STR-012

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KOLOM K1 800 X 1000

PLAT LANTAI Ø10-100

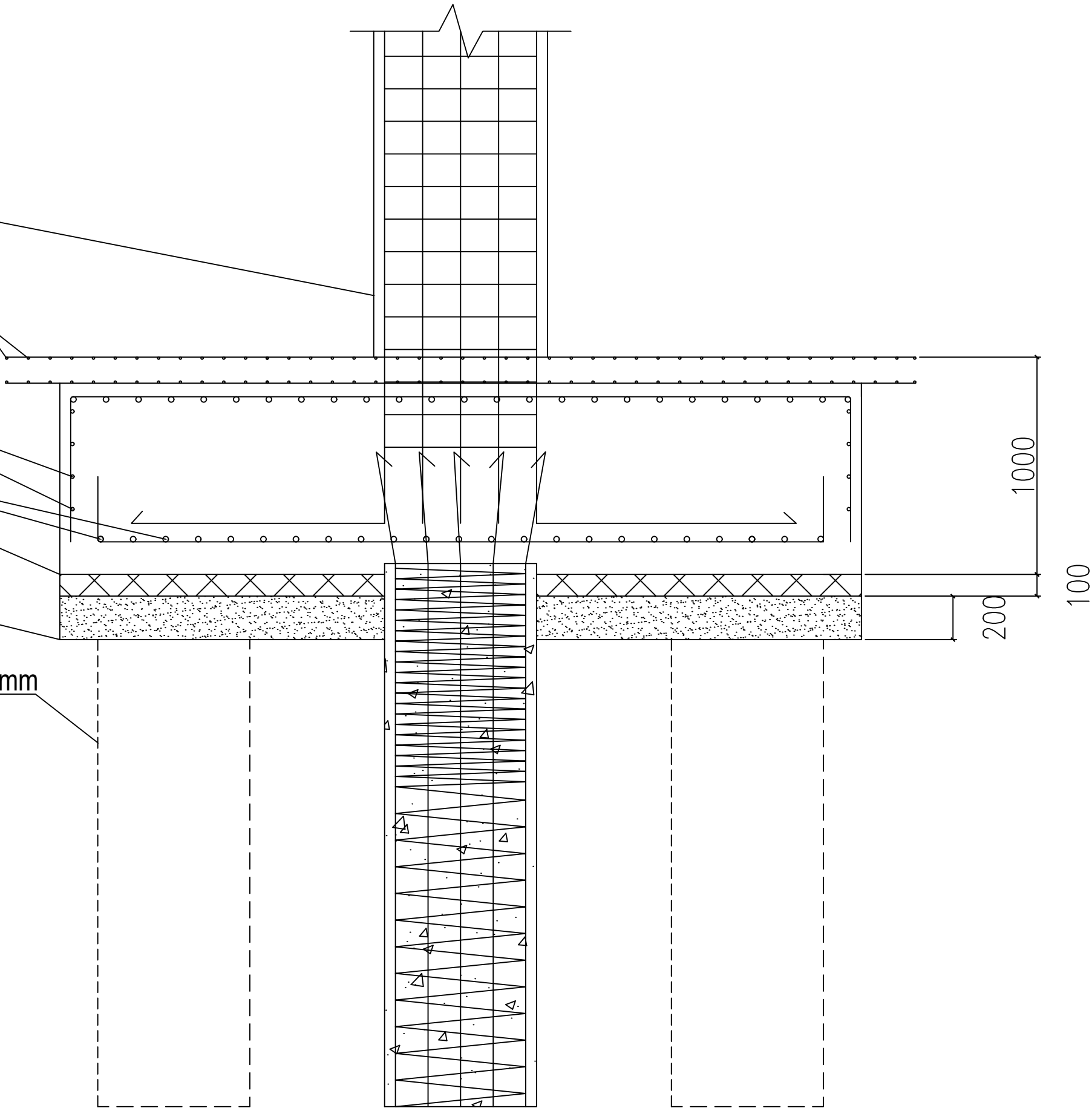
D16-150

D29-150

LANTAI KERJA K-150

PASIR URUG

PONDASI TIANG Ø 700 mm



POTONGAN PILECAP 5

SKALA 1 : 20



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Title
POTONGAN PILECAP 5

Drawn by
TAN SINDU CAHYADI
12.12.0004
NATHANAEL EKA SURYA H
12.12.0033

Dosen Pembimbing
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Ir. Budi Setiyadi, MT

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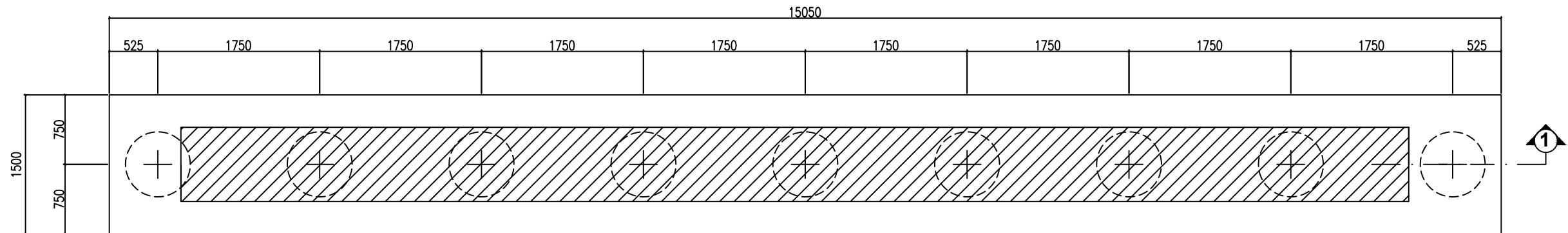
Title
DETAIL & POTONGAN
PILECAP 9

Drawn by
TAN SINDU CAHYADI
12.12.0004
NATHANAEL EKA SURYA H
12.12.0033

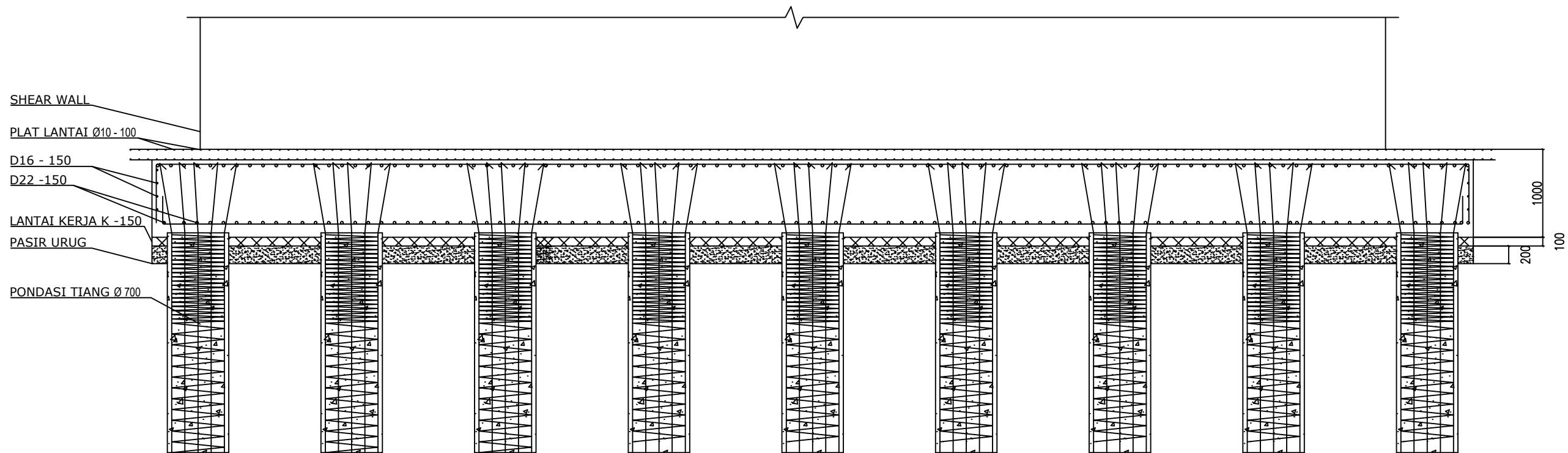
Dosen Pembimbing
Ir. David Widiyanto, MT
Ir. Budi Setiyadi, MT

Drawing no
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DETAIL PILECAP 9
SKALA 1 : 50



POTONGAN PILECAP 9
SKALA 1 : 50

